



## **Department of Applied Sciences & Humanities**

### **B.Tech First Year**

**(Session 2022-23) EVEN**

**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

- Academic calendars
- Notices regarding internal examinations
- Exam Time tables



Guru Nanak Educational Society's  
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 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur - 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur - 441501  
 Session 2022-23  
 Department of Applied Sciences & Humanities

**International Conferences (July 2022- June 23)**


Sr.No	Name of Authors	Title of Paper	Name of Journal, Vol/Issue,Page No./Link
		Effect of Diethyl ether additives to improve emission characteristics of GSOME & its respective blends operated in VCR Diesel Engine	4 <sup>th</sup> International Conference on Recent Advancement of Mechanical Engineering (ICRAME-2023) Department of Mechanical Engineering I T, Silchar Dates: 3 <sup>rd</sup> -5 <sup>th</sup> February 2023
1	Dr. Satish Chandra Ragit	Effect of compression ratio on an/exhaust emission study of I C Engine fueled with blends of GSOME & diesel to reduce environmental pollution Design Engineering (MATHED-2023), Department of Mechanical Engineering I T, Hamirpur Dates:15 <sup>th</sup> -17 <sup>th</sup> February 2023	International Conference on Emerging Aspects of Manufacturing , Thermal & Design Engineering (MATHED-2023), Department of Mechanical Engineering I T, Hamirpur Dates:15 <sup>th</sup> -17 <sup>th</sup> February 2023
		Performance evaluation of VCR diesel engine using different blends of Grape seed oil methyl ester (GSOME) as a fuel supplement Department of Production and Industrial Engineering, N I T, Jalandhar Dates: 10 <sup>th</sup> -12 <sup>th</sup> March 2023	7 <sup>th</sup> International Conference on Production & Industrial Engineering (CPIE-2023), Department of Production and Industrial Engineering, N I T, Jalandhar Dates: 10 <sup>th</sup> -12 <sup>th</sup> March 2023




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 Dahegaon, Kalmeshwar Road, Nagpur- 441501



**DEPARTMENT OF APPLIED SCIENCE & HUMANITIES**  
**B. TECH. FIRST YEAR**  
 Session 2022-2023 (EVEN)  
**ACADEMIC CALENDAR**

Date : 03/04/2023


Days							Working Days	Activities
MON	TUES	WED	THURS	FRI	SAT	SUN		
					1	2	0	3 <sup>rd</sup> April, Faculty Contact Hour Finalization
3	4	5	6	7	8	9	0	5 <sup>th</sup> April, Load Calculation, Departmental planning & Faculty Requirement
10	11	12	13	14	15	16	5	7 <sup>th</sup> April Preparation of Lesson plan/ Teaching Plan
17	18	19	20	21	22	23	6	10 <sup>th</sup> April, Commencement of Classes
24	25	26	27	28	29	30	6	12 <sup>th</sup> April, Display of Schedule for Value Added Course
								18 <sup>th</sup> April Forum Installation
								26 <sup>th</sup> April, Display of Question Bank & Sessional-1 Time Table
								28 <sup>th</sup> April Industrial Visit
<b>2<sup>nd</sup> May to 1<sup>st</sup> June</b>								
1	2	3	4	5	6	7	4	2 <sup>nd</sup> May, Display of Assignment -I , Submission on 5/05/23
8	9	10	11	12	13	14	6	2 <sup>nd</sup> May, Display of Students Monthly Attendance (April)
15	16	17	18	19	20	21	6	2 <sup>nd</sup> May, Review of Syllabus/ Display schedule of Remedial classes
22	23	24	25	26	27	28	6	9 <sup>th</sup> To 17 <sup>th</sup> Sessional -I
29	30	31					6	12 <sup>th</sup> May Guest Lecture
							3	29 <sup>th</sup> May, result of sessional 1
								29 <sup>th</sup> May, Display of Question Bank & PUT Time Table
								29 <sup>th</sup> , 30 <sup>th</sup> , 31 <sup>st</sup> May & 1 <sup>st</sup> June Internal Practical
<b>2<sup>nd</sup> June to 15<sup>th</sup> June</b>								
			1	2	3	4	3	2 <sup>nd</sup> June Display of Students Monthly Attendance (May)
5	6	7	8	9	10	11	6	2 <sup>nd</sup> June Students Activity under Forum
12	13	14	15	16	17	18	5	Review of Syllabus
19	20	21	22	23	24	25	5	5 <sup>th</sup> to 12 <sup>th</sup> June PUT Examination
26	27	28	29	30			0	15 <sup>th</sup> June Monthly Audit/ Student Feedback
							0	16 <sup>th</sup> June Last working Day
								RTMNU External Practical Exam ( As per University Time Table)
								RTMNU External Exam ( As per University Time Table)
							56	Total Working Days

List of Holidays	
April	Mahavir Jayanti
April	Dr. Ambedkar Jayanti
May	Maharashtra din
May	Buddhapornima
June	Aashadi Ekadashi

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- Notice Board



**Prof.Sadaf Gauhar**  
 HoD, ASH, GNIET

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 Department of Applied  
 Science & Humanities  
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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Dahegaon, Kalmeshwar Road, Nagpur  
**Department of Applied Sciences & Humanities**  
**(B. Tech. First Year)**  
Session: 2022-2023 (EVEN)

Date - 14-07-2023

**UNIVERSITY EXTERNAL PRACTICAL EXAMINATION SUMMER 2023  
(BACKLOG)**

**NOTICE**  
**(B. Tech. FIRST SEMESTER)**

All the faculties of First Year B. Tech. (Semester-I) (Backlog) are hereby informed that the University External Practical Exam Summer 2023 (Backlog) is to be scheduled on 24/07/2023 & Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Summer 2023 (Backlog)**

- ❑ Written exam time will be of 1hr.
- ❑ Students need to submit the paper as per allotted time. Descriptive type questions will be asked in the examinations.
- ❑ Write the university roll number, if it is available.
- ❑ After written exam students must prepare for Viva
- ❑ If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- ❑ Students must clear the balance fees, before attending the practical examination.
- ❑ Students must carry the practical record.

**Exam In charge**  
In-Charge  
Sessional Exam  
G.N.I.E.T., Nagpur

**HOD**  
HOD  
Department of Applied  
Science & Humanities  
GNIET Nagpur

**Vice-Principal**

**Principal**  
Principal  
Guru Nanak Institute of  
Engineering & Technology  
Nagpur - 441501

**Principal**  
Guru Nanak Institute of Engineering &  
Technology Nagpur - 441501

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Dahegaon, Kalmeshwar Road, Nagpur  
**Department of Applied Sciences & Humanities**  
(B. Tech. First Year)  
Session: 2022-2023 (EVEN) Date - 14-07-2023

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**UNIVERSITY EXTERNAL PRACTICAL EXAMINATION SUMMER 2023**

**NOTICE**

(B. Tech. SECOND SEMESTER)

All the faculties of First Year B. Tech. (Semester-II) are hereby informed that the **University External Practical Exam Summer 2023** is to be scheduled from **25/07/2023 to 28/07/2023** & Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Summer 2023**

- Written exam time will be of 1hr.
- Students need to submit the paper as per allotted time, Descriptive type questions will be asked in the examinations.
- Write the university roll number, if it is available.
- After written exam students must prepare for Viva
- If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- Students must clear the balance fees, before attending the practical examination.
- Students must carry the practical record.

*J. Hopkar*  
Exam In-charge  
Sessional Exam  
G.N.I.E.T., Nagpur

*K. S. K.*  
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Department of Applied  
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Vice-Principal

*H. H.*  
Principal  
Principal  
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*P. P.*  
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### **B.Tech First Year**

(Session 2022-23)

**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

- Academic calendars
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**International Conferences (July 2022- June 23)**

Sr.No	Name of Authors	Title of Paper	Name of Journal, Vol/Issue,Page No./Link
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		Performance evaluation of VCR diesel engine using different blends of Grape seed oil methyl ester (GSOME) as a fuel supplement Department of Production and Industrial Engineering, N I T, Jalandhar Dates: 10 <sup>th</sup> -12 <sup>th</sup> March 2023	7 <sup>th</sup> International Conference on Production & Industrial Engineering (CPIE-2023), Department of Production and Industrial Engineering, N I T, Jalandhar Dates: 10 <sup>th</sup> -12 <sup>th</sup> March 2023



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**DEPARTMENT OF APPLIED SCIENCE & HUMANITIES**  
**B. TECH. FIRST YEAR**  
 Session 2022-2023 (ODD)  
**ACADEMIC CALENDAR**

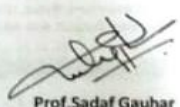
Date : 4/11/2022

Days							Working Days	Activities
MON	TUES	WED	THURS	FRI	SAT	SUN		
	1	2	3	4	5	6	0	9/11/22 Faculty Contact Hour Finalization
7	8	9	10	11	12	13	0	10 <sup>th</sup> nov Load Calculation, Departmental planning & Faculty Requirement
14	15	16	17	18	19	20	2	11 <sup>th</sup> nov. Verification of classrooms and Laboratories
21	22	23	24	25	26	27	5	16 <sup>th</sup> Nov. Preparation of Lesson plan/ Teaching Plan
28	29	30					3	17/11/22 Commencement of Classes
								17 Nov to 7 Dec Student Induction Program
								17/11/22 Display of Time Table
MON	TUES	WED	THURS	FRI	SAT	SUN		
			1	2	3	4	2	6 <sup>th</sup> Dec Preparation of student list & Attendance resister
5	6	7	8	9	10	11	5	12 <sup>th</sup> Dec. Teacher Guardian Allotment
12	13	14	15	16	17	18	5	28/12/22 Display of Assignment –I, Submission on 4/1/23
19	20	21	22	23	24	25	5	26 <sup>th</sup> Dec. Display of Question Bank & Sessional Time Table
26	27	28	29	30	31		5	
MON	TUES	WED	THURS	FRI	SAT	SUN		
						1	0	2 <sup>nd</sup> To 9 <sup>th</sup> Sessional –I
2	3	4	5	6	7	8	5	10 <sup>th</sup> to 13 <sup>th</sup> Jan Industrial visit/ TG Meeting/ IIC Activity
9	10	11	12	13	14	15	5	20/1/23 Guest Lecture
16	17	18	19	20	21	22	5	23/1/23 Display of Result ( Sessional- I )
23	24	25	26	27	28	29	4	26 <sup>th</sup> Jan Republic Day Celebration
30	31						4	25 <sup>th</sup> Jan Monthly Audit/ Student Feedback
							2	30 <sup>th</sup> Student activity in collaboration with NSS
								31 <sup>st</sup> Parent-Teacher Meet
MON	TUES	WED	THURS	FRI	SAT	SUN		
		1	2	3	4	5	3	6 <sup>th</sup> Feb Display of Assignment –II & III ; Submission on 13 <sup>th</sup>
6	7	8	9	10	11	12	5	10 <sup>th</sup> Feb. Student activity in collaboration with ROTRACT
13	14	15	16	17	18	19	5	13 <sup>th</sup> Feb Display of Question Bank & Sessional Time Table
20	21	22	23	24	25	26	5	14 <sup>th</sup> Feb One day Student Activity ( Quiz/Poster/Debate)
27	28						2	21 <sup>st</sup> To 28 <sup>th</sup> Sessional –II
								Value Added Course
MON	TUES	WED	THURS	FRI	SAT	SUN		
		1	2	3	4	5	3	1 <sup>st</sup> March Display of Assignment –IV & V ; Submission on 9 <sup>th</sup>
6	7	8	9	10	11	12	4	9 <sup>th</sup> March Display of Question Bank & PUT Time Table
13	14	15	16	17	18	19	5	13/3/23 Display of Result ( Sessional- II )
20	21	22	23	24	25	26	4	13 <sup>th</sup> to 15 <sup>th</sup> Internal Practical Exam
27	28	29	30	31			4	17 <sup>th</sup> To 27 <sup>th</sup> PUT Examination
							4	27 <sup>th</sup> March Last Teaching day
							90	Total Working Days

List Of Holidays	
Christmas	
Makar Sankranti	
Republic Day	
Mahashivratri	
Shivaji Maharaj Jayanti	
Holi	
Gudi Padva	

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**DEPARTMENT OF APPLIED SCIENCE & HUMANITIES**  
**B. TECH. FIRST YEAR**  
 Session 2022-2023 (000)  
**ACADEMIC CALENDAR**

Date: 4/11/2022

Days							Working Days	Activities
MON	TUES	WED	THURS	FRI	SAT	SUN		
1	2	3	4	5	6	7	0	
7	8	9	10	11	12	13	0	8/11/22 Faculty Contact Hour Finalization
14	15	16	17	18	19	20	2	10 <sup>th</sup> Nov Load Calculation, Departmental planning & Faculty Resourcing
21	22	23	24	25	26	27	2	13 <sup>th</sup> Nov Verification of classrooms and Laboratories
28	29	30					5	16 <sup>th</sup> Nov Preparation of Lesson plan/ Teaching Plan
							3	17/11/22 Commencement of Classes
								17 Nov to 7 Dec Student Induction Program
								17/11/22 Display of Time Table
1	2	3	4	5	6	7	2	6 <sup>th</sup> Dec Preparation of student list & Attendance register
5	6	7	8	9	10	11	5	12 <sup>th</sup> Dec Teacher Guardian Allotment
12	13	14	15	16	17	18	5	28/12/22 Display of Assignment -I Submission on 4/1/23
20	21	22	23	24	25	26	5	26 <sup>th</sup> Dec Display of Question Bank & Sessional Time Table
28	29	30					5	
1	2	3	4	5	6	7	0	2 <sup>nd</sup> To 9 <sup>th</sup> Sessional -I
9	10	11	12	13	14	15	5	10 <sup>th</sup> to 13 <sup>th</sup> Jan Industrial visit/ TG Meeting/ IC Activity
16	17	18	19	20	21	22	5	20/1/23 Guest Lecture
23	24	25	26	27	28	29	5	23/1/23 Display of Result (Sessional - I)
30	31						4	26 <sup>th</sup> Jan Republic Day Celebration
							4	25 <sup>th</sup> Jan Monthly Audit/ Student Feedback
							2	30 <sup>th</sup> Student activity in collaboration with NSS
								31 <sup>st</sup> Parent-Teacher Meet
1	2	3	4	5	6	7	3	6 <sup>th</sup> Feb Display of Assignment -II & III Submission on 13 <sup>th</sup>
6	7	8	9	10	11	12	5	10 <sup>th</sup> Feb Student activity in collaboration with RUTRACT
13	14	15	16	17	18	19	5	13 <sup>th</sup> Feb Display of Question Bank & Sessional Time Table
20	21	22	23	24	25	26	5	14 <sup>th</sup> Feb One day Student Activity (Quiz/Poster/Debate)
27	28						2	21 <sup>st</sup> To 28 <sup>th</sup> Sessional -II
								Value Added Course
1	2	3	4	5	6	7	3	1 <sup>st</sup> March Display of Assignment -IV & V Submission on 9 <sup>th</sup>
6	7	8	9	10	11	12	4	9 <sup>th</sup> March Display of Question Bank & PUT Time Table
13	14	15	16	17	18	19	5	13/3/23 Display of Result (Sessional - II)
20	21	22	23	24	25	26	4	13 <sup>th</sup> to 15 <sup>th</sup> Internal Practical Exam
27	28	29	30	31			4	17 <sup>th</sup> To 27 <sup>th</sup> PUT Examination
							4	27 <sup>th</sup> March Last Teaching day
							90	Total Working Days

List Of Holidays	
25 <sup>th</sup> Dec	Christmas
14 <sup>th</sup> Jan	Makar Sankranti
26 <sup>th</sup> Jan	Republic Day
18 <sup>th</sup> Feb	Mahashivratri
19 <sup>th</sup> Feb	Shivaji Maharaj Jayanti
8 <sup>th</sup> Mar	Holi
22 <sup>nd</sup> March	Gudi Padwa
30 <sup>th</sup> March	Ramnavmi

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**HOD**  
**Department of Applied**  
**Science & Humanities**  
**GNIEET**



## **Department of Applied Sciences & Humanities**

### **B.Tech First Year**

(Session 2021-22)

**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

- Academic calendars



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 NAAC ACCREDITED  
 Dahegaon, Kalmeshwar Road, Nagpur 441501  
**DEPARTMENT OF FIRST YEAR ENGINEERING**  
 Session 2021-2022 (ODD)

**ACADEMIC CALENDAR**

Month	Days							Working Days	Activities
	MON	TUE	WED	THU	FRI	SAT	SUN		
JAN						1	2	0	07-01-22 Faculty Contact Hour Finalization
	3	4	5	6	7	8	9	5	10-01-22 Display of Time Table (Class/Section/Sem. Wise)
	10	11	12	13	14	15	16	5	11-01-22 Commencement of Classes
	17	18	19	20	21	22	23	5	11-01-22 to 14-01-2022 Registration to the Department
	24	25	26	27	28	29	30	4	26-01-22 Republic Day Celebration
	31							1	
FEB	MON	TUE	WED	THU	FRI	SAT	SUN		
		1	2	3	4	5	6	5	17-02-22 Guest Lecture
	7	8	9	10	11	12	13	5	22-02-22 Shivaji Jayanti Celebration
	14	15	16	17	18	19	20	5	21st to 28th Feb, 2022 Sessional - I
	21	22	23	24	25	26	27	5	25-02-22 Parents Meet
	28							1	28-02-22 Industrial Visit
MAR	MON	TUE	WED	THU	FRI	SAT	SUN		
			2	3	4	5	6	3	03-03-22 Display of Result (Sessional - I)
	7	8	9	10	11	12	13	5	04-03-22 Guest Lecture
	14	15	16	17	18	19	20	4	09th to 16th Mar, 2022 Sessional - II
	21	22	23	24	25	26	27	0	17-03-22 Last Teaching Day
	28	30	31					0	17-03-22 Display of Result (Sessional - II) 21st to 28th Mar, 2022 PUT Exam 21st to 31st Mar, 2022 Remedial Classes
APR	MON	TUE	WED	THU	FRI	SAT	SUN		
				1	2	3	4	0	
	5	6	7	8	9	10	11	0	RTMNU Practical Examination As per University Time Table
	12	13	14	15	16	17	18	0	RTMNU Theory Examination As per University Time Table
	19	20	21	22	23	24	25	0	
26	27	28	29	30			0		
								53	Total Working Days

List of Holidays		
26th	Jan	Republic Day
19th	Feb	Chhatrapati Shivaji Maharaj Jayanti
1st	Mar	Mahashivratri
18th	Mar	Holi/Dhulivandan
2nd	Apr	Gudipadwa

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 GNIET Nagpur



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**

(Established by Government of Central Provinces Education Department by Notification No. 513, dated 1<sup>st</sup> of August, 1921 & presently a State University governed by Maharashtra Public Universities Act, 2016 Maharashtra Act No 91 of 2017)  
(Academic Section)

Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jinnatal Bajaj Administrative Building, Mahatma Jyoti Ba Phule Educational Premises, Campus Square to Ambazari T-Point Road, Nagpur-440033

No. Acad./Acad.Cale./2021/45

Date: 25<sup>th</sup> June 2021

**NOTIFICATION**

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the Academic Calendar for the session 2021-22 will be as under:

**A] ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2021-22.**

**1. Terms & Vacation**

First Term (Odd semesters) = U.G.	:	02.08.2021 to 30.11.2021
First Term (Odd semesters) = P.G.	:	30.08.2021 to 24.12.2021
Diwali Holidays	:	31.10.2021 to 10.11.2021
Second Term (Even semesters) = U.G.	:	10.01.2022 to 07.05.2022
Second Term (Even semesters) = P.G.	:	10.01.2022 to 07.05.2022
Summer Vacation	:	09.05.2022 to 22.06.2022

**2. Admissions\***

a) Last date of Admission (First sem) U.G & PG	:	To be notified separately
b) Last date of Admission other than 1 <sup>st</sup> sem. U.G & PG	:	20 <sup>th</sup> September 2021
c) Last date for Admission with prior permission of the Vice-Chancellor	:	20 <sup>th</sup> October 2021

**3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission

**4. Examination**

**A. Winter Examinations.**

**1. Commencement of Exam.**

a) Failure Students in even semesters = U.G	:	15 <sup>th</sup> November 2021
b) Failure Students in even semesters = P.G	:	13 <sup>th</sup> December 2021
c) Regular students in odd semesters = U.G	:	1 <sup>st</sup> December 2021
d) Regular students in odd semesters = P.G	:	27 <sup>th</sup> December 2021

**2. Last date for receipt of exams. forms**

a) Regular students = U.G & PG	:	Within one month from the last date of admission
b) Old Ex-Students & External Students	:	15 <sup>th</sup> September 2021
c) Ex-Students of immediately previous examination = U.G & PG	:	Within 15 days from the date of declaration of the result of summer Exams.

**B. Summer Exams.**

**1. Commencement of Exams.**

a) Failure of odd semester = U.G & P.G	:	25 <sup>th</sup> April 2022
b) Regular Even semester = U.G	:	9 <sup>th</sup> May 2022
c) Regular Even semester = P.G	:	9 <sup>th</sup> May 2022

**2. Last date for receipt of examinations forms**

a) Regular Students	:	1 <sup>st</sup> March 2022
b) Ex-Students of immediately previous exam	:	Within 15 days from the date of declaration of the result of winter Exams.
c) Old Ex-Students & External Students	:	15 <sup>th</sup> October 2021



Guru Nanak Educational Society's  
**GURU NANAK INSTITUTE  
OF ENGINEERING & TECHNOLOGY**

APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR  
Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



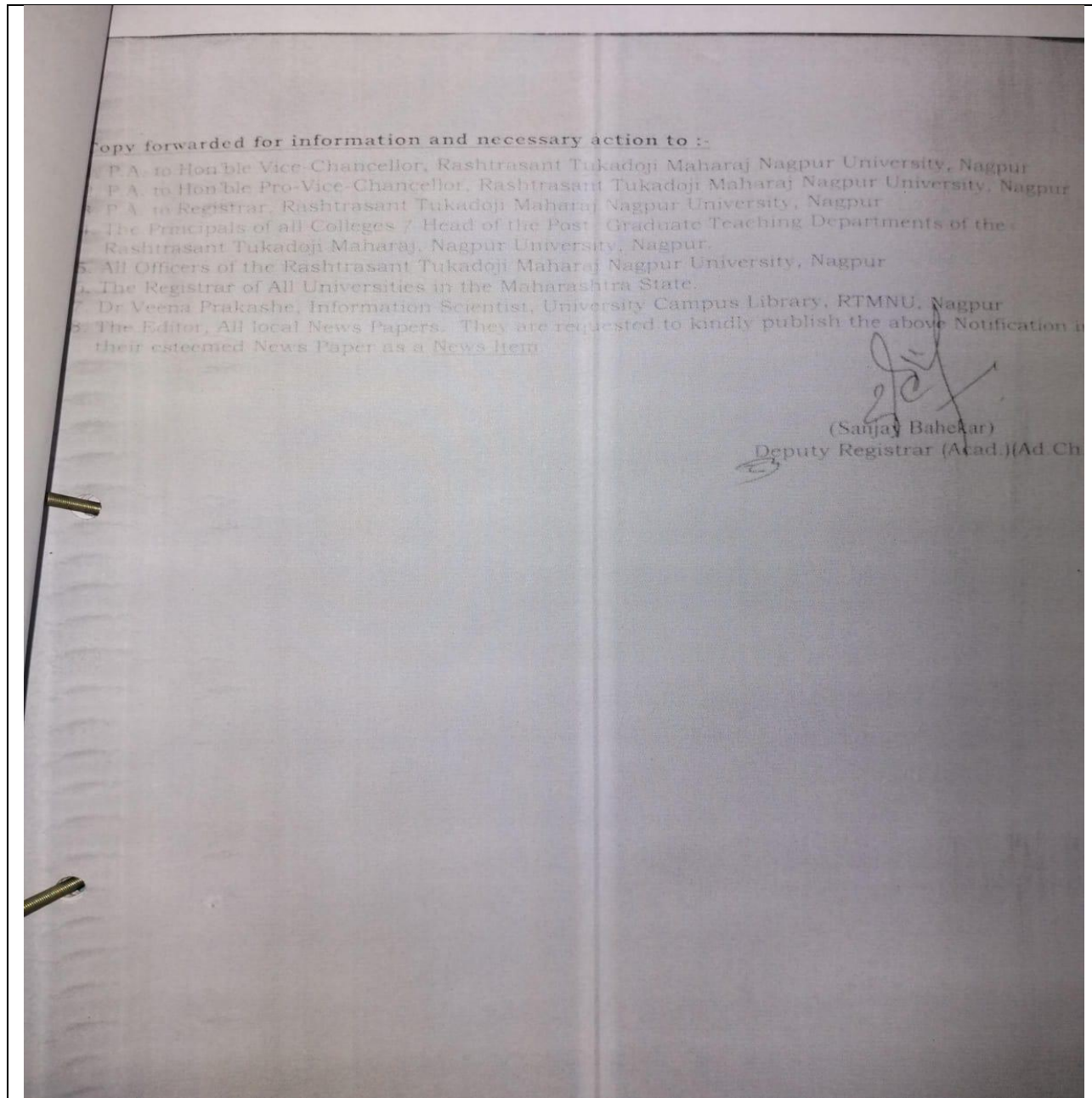
- B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2021-22.**
- 1. Terms & Vacation**
- |                 |   |                          |
|-----------------|---|--------------------------|
| First Term      | : | 02.08.2021 to 30.10.2021 |
| Diwali Holidays | : | 31.10.2021 to 10.11.2021 |
| Second Term     | : | 11.11.2021 to 07.05.2022 |
| Summer Vacation | : | 09.05.2022 to 22.06.2022 |
- 2. Admissions\***
- |   |   |                           |
|---|---|---------------------------|
| a) Last date of Admission   | : | To be notified separately |
| b) Last date for Admission with prior Permission of the Vice-Chancellor | : | To be notified separately |
- 3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission.
- 5. Examination**
- Winter Examinations.**
- |  |   |  |
|--|---|--|
| 1. Commencement of Exam.                           | : | 15 <sup>th</sup> November 2021   |
| 2. Last date for receipt of exams. forms           | : |  |
| a) Regular Students                                | : | 30 <sup>th</sup> October 2021  |
| b) External Students                               | : | 15 <sup>th</sup> September 2021  |
| c) Old Ex-Students                                 | : | 15 <sup>th</sup> September 2021  |
| d) Ex-Students of immediately previous examination | : | Within 15 days from the date of declaration of the result of summer exam |
- Summer Exams.**
- |  |   |  |
|--|---|--|
| 1. Commencement of Exams.                    | : | 9 <sup>th</sup> May 2022   |
| 2. Last date for receipt of exams. forms     | : |  |
| a) Regular Students                          | : | 15 <sup>th</sup> March 2022  |
| b) Old Ex-Students                           | : | 15 <sup>th</sup> October 2021  |
| c) External Students                         | : | 15 <sup>th</sup> October 2021  |
| d) Ex-Students of immediately previous exam. | : | Within 15 days from the date of declaration of the result of winter exam |
- 5. Declaration of Results** : As per governing provisions of the Act.
- C) Convocation Winter 2020 & Summer 2021** : **December 2021**

**Special Instructions :**

1. The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
2. Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
3. All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year.
4. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
5. Mark Card (Machine Card) must be sent by the Principal/University Heads of the Department, within 30 days from the last date of admission as notified by the university, strictly in MS Excel software.
6. Due to pandemic situation, majority of teaching activities are taking place in online mode. Hence, Sundays may be treated as teaching days.
7. It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
8. All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
9. This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process.
10. Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
11. The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
12. In case, Admissions governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 of 2010.
13. **Special Note:**  
Owing to the Pandemic situation, there is a possibility that this Academic Calendar may require changes during its course of implementation in accordance with the norms and guidelines issued by the Government and other regulating bodies. In view of this, the Academic Council authorizes Hon'ble Vice-Chancellor to make necessary amendments and modifications in this Academic Calendar.

By Order of the Hon'ble Vice- Chancellor

*(Signature)*





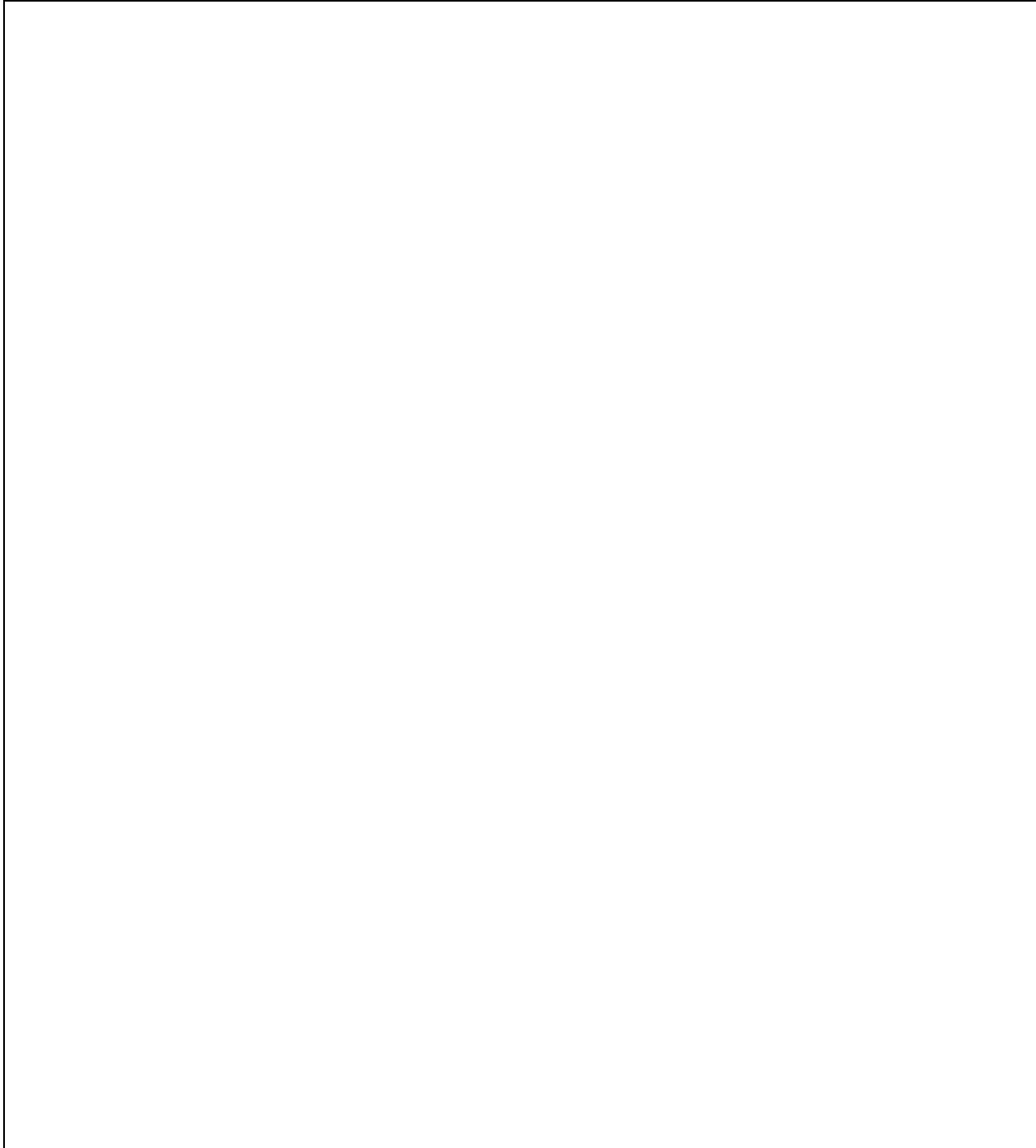
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**GURU NANAK INSTITUTE  
OF ENGINEERING & TECHNOLOGY**  
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Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur - 441501 Ph. 07118-661400  
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Website: [www.gniet.ac.in](http://www.gniet.ac.in) E-mail: [gnietnagpur@gmail.com](mailto:gnietnagpur@gmail.com)





**GURU NANAK INSTITUTE OF  
ENGINEERING & TECHNOLOGY**

Dahegaon, Kalmeshwar Road, Nagpur - 441501



**Department of First Year Engineering**  
FIRST SEMESTER - 2021-2022

**ACADEMIC CALENDER**

Date :- 16/12/2021

SR. NO.	ACTIVITIES	DATE
1.	Commencement of Classes	20/ 12/ 2021
2.	First Unit Test	17/ 01/ 2022 TO 24/ 01/ 2022
3.	Parents Meet	04/ 02/ 2022
4.	Guest Lecture	09 / 02/ 2022
5.	Second Unit Test	14/ 02/ 2022 TO 21/ 02/ 2022
6.	Department Activity	25/ 02/ 2022 TO 04/ 03/ 2022
7.	Add On Course	07/ 03/ 2022 TO 11 / 03/ 2022
8.	Third Unit Test	14/ 03/ 2022 TO 23/ 03/ 2022
9.	Industrial Visit	25/ 03/ 2022
10.	Value Added	28 / 03/ 2022 TO 30/ 03/ 2022
11.	PUT Examination	01/ 04/ 2022 TO 08/ 04/ 2022
12.	RTMNU Examination ( Practical)	As per University Time Table
13.	RTMNU Examination ( Theory)	As per University Time Table

  
Prof. Sadaf Gauhar  
HoD, ASH, GNIET  
16/12/2021  
Head of Department  
First Year B.E  
GNIET, Nagpur

- Copy To :-
- Director GNES for kind Information
  - Officiating Principal, GNIET
  - Circulation Among Staff
  - Notice Board



## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session 2021-22)

**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

- Academic calendars

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY Dahegaon, Kalmeshwar Road, Nagpur- 441501									
DEPARTMENT OF APPLIED SCIENCE & HUMANITIES B. TECH. FIRST YEAR Session 2022-2023 (EVEN) ACADEMIC CALENDAR									
Date : 03/04/2023									
Month's	Days							Working Days	Activities
	MON	TUES	WED	THURS	FRI	SAT	SUN		
APRIL	3	4	5	6	7	8	9	0	3 <sup>rd</sup> April, Faculty Contact Hour Finalization
	10	11	12	13	14	15	16	0	5 <sup>th</sup> April, Load Calculation, Departmental planning & Faculty Requirement
	17	18	19	20	21	22	23	5	7 <sup>th</sup> April Preparation of Lesson plan/ Teaching Plan
	24	25	26	27	28	29	30	6	10 <sup>th</sup> April, Commencement of Classes
								6	12 <sup>th</sup> April, Display of Schedule for Value Added Course
MAY									18 <sup>th</sup> April Forum Installation
									26 <sup>th</sup> April, Display of Question Bank & Sessional-1 Time Table
									28 <sup>th</sup> April Industrial Visit
	1	2	3	4	5	6	7	4	2 <sup>nd</sup> May, Display of Assignment –I, Submission on 5/05/23
	8	9	10	11	12	13	14	6	2 <sup>nd</sup> May, Display of Students Monthly Attendance (April)
15	16	17	18	19	20	21	6	2 <sup>nd</sup> May, Review of Syllabus/ Display schedule of Remedial classes	
22	23	24	25	26	27	28	6	9 <sup>th</sup> To 17 <sup>th</sup> Sessional –I	
29	30	31					6	12 <sup>th</sup> May Guest Lecture	
JUNE								3	29 <sup>th</sup> May, result of sessional 1
									29 <sup>th</sup> May, Display of Question Bank & PUT Time Table
									29 <sup>th</sup> , 30 <sup>th</sup> , 31 <sup>st</sup> May & 1 <sup>st</sup> June Internal Practical
	5	6	7	8	9	10	11	3	2 <sup>nd</sup> June Display of Students Monthly Attendance (May)
	12	13	14	15	16	17	18	3	2 <sup>nd</sup> June Students Activity under Forum
19	20	21	22	23	24	25	6	Review of Syllabus	
26	27	28	29	30			5	5 <sup>th</sup> to 12 <sup>th</sup> June PUT Examination	
							0	15 <sup>th</sup> June Monthly Audit/ Student Feedback	
							0	16 <sup>th</sup> June Last working Day	
									RTMNU External Practical Exam ( As per University Time Table)
									RTMNU External Exam ( As per University Time Table)
							56		Total Working Days

List of Holidays	
4 <sup>th</sup> April	Mahavir Jayanti
14 <sup>th</sup> April	Dr. Ambedkar Jayanti
1 <sup>st</sup> May	Maharashtra din
5 <sup>th</sup> May	Buddhapornima
29 <sup>th</sup> June	Aashadi Ekadashi


Copy To :

1. Principal, GNIET
2. Vice-Principal, GNIET
3. Associate Dean Academic
4. Circulate among FY faculties
5. Notice Board

*(Signature)*  
**Prof. Sadaf Gauhar**  
 HoD, ASH, GNIET

**HOD**  
 Department of Applied  
 Science & Humanities  
 GNIET Nagpur



  
**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR**  
(Established by Government of Central Provinces Education Department by Notification No. 513, dated 1<sup>st</sup> of August, 1971 & presently a State University governed by Maharashtra Public Universities Act, 2016/Maharashtra Act No. 91 of 2017)  
(Academic Section)  
Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jinnalal Bajaj Administrative Building, Mahatma Jyoti Phule Educational Premises, Campus Square to Ambazari T-Point Road, Nagpur-440033

No. Acad./Acad.Cale./2021/45 Date: 25<sup>th</sup> June 2021

**NOTIFICATION**

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the **Academic Calendar for the session 2021-22** will be as under:

**A] ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2021-22.**

1. **Terms & Vacation**

First Term (Odd semesters) = U.G.	:	02.08.2021 to 30.11.2021
First Term (Odd semesters) = P.G.	:	30.08.2021 to 24.12.2021
Diwali Holidays	:	31.10.2021 to 10.11.2021
Second Term (Even semesters) = U.G.	:	10.01.2022 to 07.05.2022
Second Term (Even semesters) = P.G.	:	10.01.2022 to 07.05.2022
Summer Vacation	:	09.05.2022 to 22.06.2022
2. **Admissions\***

a) Last date of Admission (First sem) U.G & PG	:	To be notified separately
b) Last date of Admission other than 1 <sup>st</sup> sem. U.G & PG	:	20 <sup>th</sup> September 2021
c) Last date for Admission with prior permission of the Vice-Chancellor	:	20 <sup>th</sup> October 2021
3. **Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission
4. **Examination**
  - A. **Winter Examinations.**
    1. **Commencement of Exam.**

a) Failure Students in even semesters = U.G	:	15 <sup>th</sup> November 2021
b) Failure Students in even semesters = P.G	:	13 <sup>th</sup> December 2021
c) Regular students in odd semesters = U.G	:	1 <sup>st</sup> December 2021
Regular students in odd semesters = P.G	:	27 <sup>th</sup> December 2021
    2. **Last date for receipt of exams. forms**

a) Regular students = U.G & PG	:	Within one month from the last date of admission
b) Old Ex-Students & External Students	:	15 <sup>th</sup> September 2021
c) Ex-Students of immediately previous examination = U.G & PG	:	Within 15 days from the date of declaration of the result of summer Exams.
  - B. **Summer Exams.**
    1. **Commencement of Exams.**

a) Failure of odd semester = U.G & P.G	:	25 <sup>th</sup> April 2022
b) Regular Even semester = U.G	:	9 <sup>th</sup> May 2022
c) Regular Even semester = P.G	:	9 <sup>th</sup> May 2022
    2. **Last date for receipt of examinations forms**

a) Regular Students	:	1 <sup>st</sup> March 2022
b) Ex-Students of immediately previous exam	:	Within 15 days from the date of declaration of the result of winter Exams.
c) Old Ex-Students & External Students	:	15 <sup>th</sup> October 2021



B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2021-22.

1. Terms & Vacation		
First Term	:	02.08..2021 to 30.10. 2021
Diwali Holidays	:	31.10.2021 to 10.11.2021
Second Term	:	11.11.2021 to 07.05.2022
Summer Vacation	:	09.05.2022 to 22.06.2022
2. Admissions*		
a) Last date of Admission	:	To be notified separately
b) Last date of Admission with prior Permission of the Vice-Chancellor	:	To be notified separately
3. Last date of submission of Enrolment forms to the university	:	Within fifteen days from the last notified date of Admission.
5. Examination		
Winter Examinations.		
1. Commencement of Exam.	:	15 <sup>th</sup> November 2021
2. Last date for receipt of exams. forms	:	
a) Regular Students	:	30 <sup>th</sup> October 2021
b) External Students	:	15 <sup>th</sup> September 2021
c) Old Ex-Students	:	15 <sup>th</sup> September 2021
d) Ex-Students of immediately previous examination	:	Within 15 days from the date of declaration of the result of summer exam
Summer Exams.		
1. Commencement of Exams.	:	9 <sup>th</sup> May 2022
2. Last date for receipt of exams. forms	:	
a) Regular Students	:	15 <sup>th</sup> March 2022
b) Old Ex-Students	:	15 <sup>th</sup> October 2021
c) External Students	:	15 <sup>th</sup> October 2021
d) Ex-Students of immediately previous exam.	:	Within 15 days from the date of declaration of the result of winter exam
5. Declaration of Results	:	As per governing provisions of the Act.
C) Convocation Winter 2020 & Summer 2021	:	December 2021

**Special Instructions :**

- The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
- Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
- All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year
- Theory and Practical examinations may be held on Sunday with prior permission and intimation.
- Machine Card (Machine Card) must be sent by the Principal/University Heads of the Department, within 30 days from the last date of admission as notified by the university, strictly in MS Excel software
- Due to pandemic situation, majority of teaching activities are taking place in online mode. Hence, Sundays may be treated as teaching days.
- It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
- All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
- This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process.
- Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
- The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
- In case, Admissions governed by Conditional Eligibility the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 Of 2010.
- Special Note:**  
Owing to the Pandemic situation, there is a possibility that this Academic Calendar may require changes during its course of implementation in accordance with the norms and guidelines issued by the Government and other regulating bodies. In view of this, the Academic Council authorizes Hon'ble Vice-Chancellor to make necessary amendments and modifications in this Academic Calendar.

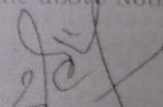
By Order of the Hon'ble Vice- Chancellor

(Signature)



Copy forwarded for information and necessary action to :-

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges & Head of the Post-Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr Veena Prakash, Information Scientist, University Campus Library, RTMNU, Nagpur
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.

  
(Sanjay Bahekar)  
Deputy Registrar (Acad.) (Ad. Ch)



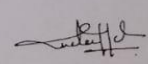
**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 NAAC ACCREDITED  
 Dahegaon, Kalmeshwar Road, Nagpur 441501  
**DEPARTMENT OF APPLIED SCIENCE & HUMANITIES**  
**B. TECH. FIRST YEAR**  
 Session 2021-2022 (EVEN)  
**ACADEMIC CALENDAR**

Date: 12/04/2022

Month	Days							Working Days	Activities
	MON	TUE	WED	THU	FRI	SAT	SUN		
MAY							1	0	05-05-22 Faculty Contact Hour Finalization
	2	3	4	5	6	7	8	0	06-05-22 Display of Time Table (Class/Section/Sem. Wise)
	9	10	11	12	13	14	15	5	<b>09-05-22 Commencement of Classes</b>
	16	17	18	19	20	21	22	4	09-05-22 To 13-05-22 Registration to the Department
	23	24	25	26	27	28	29	5	25th to 27th May 22 Three days Wokshop on Personality Development
	30	31					2		
JUN								3	03-06-22 Display of Assignment-I, Submission: 10-06-22
	6	7	8	9	10	11	12	5	21st To 28th Jun. 22 Sessional-I
	13	14	15	16	17	18	19	5	29-06-22 Industrial Visit
	20	21	22	23	24	25	26	5	
	27	28	29	30				4	
JUL								1	05-07-22 Display of Result (Sessional-I)
	4	5	6	7	8	9	10	5	08-07-22 Display of Assignment-II, Submission: 15-07-22
	11	12	13	14	15	16	17	5	21st To 28th Jun. 22 Sessional-II
	18	19	20	21	22	23	24	5	29-07-22 Industrial Visit
	25	26	27	28	29	30	31	5	27th to 29th Jul. 22 Value Added Course
AUG.								5	1st to 2nd Aug. 22 Value Added Course
	1	2	3	4	5	6	7	5	04-08-22 Display of Result (Sessional-II)
	8	9	10	11	12	13	14	5	05-08-22 Guest Lecture
	15	16	17	18	19	20	21	4	05-08-22 Display of Assignment-III, Submission: 12-08-22
	22	23	24	25	26	27	28	5	12-08-22 Last Teaching Day
	29	30	31				2	15-08-22 Independence Day Celebration <b>16th to 19th Aug. 2022 Internal Practical Exam</b> <b>22nd to 29th Aug. 2022 PUT Exam</b>	
SEP.								0	RTMNU Theory Examination As per University Time Table
								0	RTMNU Practical Examination As per University Time Table
	5	6	7	8	9	10	11	0	
	12	13	14	15	16	17	18	0	
	19	20	21	22	23	24	25	0	
	26	27	28	29	30		0		
<b>80</b>								<b>Total Working Days</b>	

List of Holidays		
1st	May.22	Maharashtra Din
3rd	May.22	Ramzan Eid
16th	May.22	Budhha Pornima
9th	Aug. 22	Moharam
15th	Aug. 22	Indepedance Day
16th	Aug. 22	Parshi New Years
31th	Aug. 22	Shri Ganesh Chaturthi

  
**HoD**  
 B. Tech., First Year, GNIET  
**HOD**  
 Department of Applied  
 Science & Humanities  
 GNIET Nagpur

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 2. Vice-Principal GNIET  
 3. Associate Dean Academic  
 4. Circulate among FY Faculties  
 5. Notice Board



## **Department of Applied Sciences & Humanities**

### **B.Tech First Year**

(Session 2020-21)

**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

- Academic calendars





**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 (NAAC ACCREDITED)  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
**DEPARTMENT OF FIRST YEAR ENGINEERING**  
 Session 2020-2021 (ODD)

**ACADEMIC CALENDER**

Month	Days							Working Days	Activities
	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
August	3	4	5	6	7	8	9	0	01-08-2020 to 13-08-2020 Registration to the Department
	10	11	12	13	14	15	16	0	06-08-2020 Faculty Contact Hour Finalization
	17	18	19	20	21	22	23	5	07-08-2020 Display of Time Table (Class/Section Wise)
	24	25	26	27	28	29	30	5	10-08-2020 Commencement of Classes
	31							1	15-08-2020 Independence Day Celebration
September	1	2	3	4	5	6	4	01-09-2020 Display of Assignment-I	
	7	8	9	10	11	12	13	5	14-09-2020 Submission of Assignment-I
	14	15	16	17	18	19	20	5	21st to 25th Sept. 2020 First Unit Test
	21	22	23	24	25	26	27	5	30-09-2020 Display of Result (First Unit Test)
	28	29	30					3	
October	5	6	7	8	9	10	11	5	31-10-2020 Display of Assignment-II
	12	13	14	15	16	17	18	5	
	19	20	21	22	23	24	25	5	
	26	27	28	29	30	31		5	
November	2	3	4	5	6	7	8	5	08th to 16th Nov. 2020 Diwali Vacation
	9	10	11	12	13	14	15	5	17-11-2020 Submission of Assignment-II
	16	17	18	19	20	21	22	5	23-11-2020 Last Teaching Day
	23	24	25	26	27	28	29	0	
	30							0	
December	7	8	9	10	11	12	13	0	01st to 05th Dec. 2020 Second Unit Test
	14	15	16	17	18	19	20	0	10-12-2020 Display of Result (Second Unit Test)
	21	22	23	24	25	26	27	0	12th to 24th Dec. 2020 RTMNU Exam Including Practicals
	28	29	30	31				0	
								79	Total Working Days

List of Holidays		
1 <sup>st</sup>	Aug	Bakari Eid
15 <sup>th</sup>	Aug	Independence Day
16 <sup>th</sup>	Aug	Pateti (Parsi New Year Day)
22 <sup>nd</sup>	Aug	Ganesh Chaturti
30 <sup>th</sup>	Aug	Moharram
2 <sup>nd</sup>	Oct	Gandhiji Jayanti
25 <sup>th</sup>	Oct	Dassera

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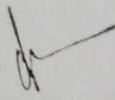


**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Dahegaon, Kalmeshwar Road, Nagpur 441 501.  
Session : 2020-21



Revised Academic Calendar for Session 2020-21  
Date of Release: 31/07/2021

Activity	Dates
<b>ODD Semester</b>	
Admission/Registrations	01 August 2020 -13 August 2020
Display of the Time Table	07 Aug 2020
Commencement of Teaching	10 Aug,2020
Display of Home Assignment 1	1 Sep 2020
Late Date of Submission of Home Assignment 1	14 Sep 2020
Sessional Exam I	21-25 Sept,2020
Display of Home Assignment 2	31 oct 2020
Deewali Vacation (Students)	08-16 Nov, 2020
Late Date of Submission of Home Assignment 2	17 Nov 2020
End of Teaching for all Classes (Attendance will be computed till this date)	23 Nov 2020
Sessional Exam II	01-05 Dec 2020
Tentative RTMNU Examination including Practical courses	12-24 Dec 2020
Winter Vacation	25 Dec 2020 -15 Jan 2021
<b>Even Semester</b>	
Admission/Registrations	10 January 2021 -16 January 2021
Display of the Time Table	12 January 2021
Commencement of Teaching	15 January 2021
Display of Home Assignment 1	8 Feb 2021
Late Date of Submission of Home Assignment 1	15 Feb 2021
Sessional Exam I	22 -26 Feb 2021
Display of Home Assignment 2	10 April 2021
Late Date of Submission of Home Assignment 2	17 April 2021
End of Teaching for all Classes (Attendance will be computed till this date)	25 April 2021
Sessional Exam II	26 -30 April 2021
Tentative RTMNU Examination including Practical courses	22 May- 05 June 2021

  
Principal, GNIET

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## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session 2020-21) EVEN

**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

- Academic calenders

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY (AICTE ACCREDITED) Kalmeshwar Road, Nagpur-441 501 DEPARTMENT OF FIRST YEAR ENGINEERING Session 2020-2021 (EVEN)									
ACADEMIC CALENDER									
Month	Days							Working Days	Activities
	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
JAN					1	2	3	0	10-01-2021 to 16-01-2021 Registration to the Department
	4	5	6	7	8	9	10	0	11-01-2021 Faculty Contact Hour Finalization
	11	12	13	14	15	16	17	1	12-01-2021 Display of Time Table (Class/Section Wise)
	18	19	20	21	22	23	24	5	<b>15-01-2021 Commencement of Classes</b>
	25	26	27	28	29	30	31	4	26-01-21 Republic Day Celebration
FEB								5	08-02-21 Display of Assignment-I
	1	2	3	4	5	6	7	5	15-02-21 Submission of Assignment-I
	8	9	10	11	12	13	14	4	22nd to 26th Feb, 2021 First Unit Test
	15	16	17	18	19	20	21	4	
	22	23	24	25	26	27	28	5	
MARCH								5	04-03-21 Display of Result (First Unit Test)
	1	2	3	4	5	6	7	4	
	8	9	10	11	12	13	14	5	
	15	16	17	18	19	20	21	5	
	22	23	24	25	26	27	28	5	
APRIL								2	
				1	2	3	4	1	10-04-21 Display of Assignment-II
	5	6	7	8	9	10	11	5	17-04-21 Submission of Assignment-II
	12	13	14	15	16	17	18	4	25-04-21 Last Teaching Day
	19	20	21	22	23	24	25	4	26th to 30th Apr, 2021 Second Unit Test
MAY								5	
						1	2	0	
	3	4	5	6	7	8	9	5	05-05-2021 Display of Result (Second Unit Test)
	10	11	12	13	14	15	16	0	22nd May to 05th Jun, 2021 RTMNU Exam Including Practicals
	17	18	19	20	21	22	23	0	
								0	
								0	
								74	<b>Total Working Days</b>

List of Holidays	
26-01-2021	Republic Day
19-02-2021	Chhatrapati Shivaji Jayanti
11-03-2021	Mahashivratri
29-03-2021	Holi
02-04-2021	Good Friday
13-04-2021	Gudipadva
21-04-2021	Shri Ram Navmi
25-04-2021	Mahavir Jayanti

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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Dahegaon, Kalmeshwar Road, Nagpur 441 501.  
Session : 2020-21



Revised Academic Calendar for Session 2020-21  
Date of Release: 31/07/2021

Activity	Dates
<b>ODD Semester</b>	
Admission/Registrations	01 August 2020 -13 August 2020
Display of the Time Table	07 Aug 2020
Commencement of Teaching	10 Aug,2020
Display of Home Assignment 1	1 Sep 2020
Late Date of Submission of Home Assignment 1	14 Sep 2020
Sessional Exam I	21-25 Sept,2020
Display of Home Assignment 2	31 oct 2020
Deewali Vacation (Students)	08-16 Nov. 2020
Late Date of Submission of Home Assignment 2	17 Nov 2020
End of Teaching for all Classes (Attendance will be computed till this date)	23 Nov 2020
Sessional Exam II	01-05 Dec 2020
Tentative RTMNU Examination including Practical courses	12-24 Dec 2020
Winter Vacation	25 Dec 2020 -15 Jan 2021
<b>Even Semester</b>	
Admission/Registrations	10 January 2021 -16 January 2021
Display of the Time Table	12 January 2021
Commencement of Teaching	15 January 2021
Display of Home Assignment 1	8 Feb 2021
Late Date of Submission of Home Assignment 1	15 Feb 2021
Sessional Exam I	22 -26 Feb 2021
Display of Home Assignment 2	10 April 2021
Late Date of Submission of Home Assignment 2	17 April 2021
End of Teaching for all Classes (Attendance will be computed till this date)	25 April 2021
Sessional Exam II	26 -30 April 2021
Tentative RTMNU Examination including Practical courses	22 May- 05 June 2021

  
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## **Department of Applied Sciences & Humanities**

**B.Tech First Year**

(Session 2019-20) ODD

**Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

- Academic calenders



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 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
**DEPARTMENT OF FIRST YEAR ENGINEERING**  
 Session 2019-2020 (ODD)

**ACADEMIC CALENDER**

Month	Days							Working Days	Activities
	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
Oct.	1	2	3	4	5	6	0	04-10-2019 Faculty Contact Hour Finalization	
	7	8	9	10	11	12	5	05-10-2019 Display of Time Table (Class/Section/Sem. Wise)	
	14	15	16	17	18	19	6	07-10-2019 Commencement of Classes	
	21	22	23	24	25	26	4	07-10-2019 to 15-10-2019 Registration to Department	
	28	29	30	31			0	14-10-2019 Induction Programme	
Nov.	Mo	Tue	We	Thu	Fri	Sat	Sun		
					1	2	3	0	25th Oct. 03rd Nov. 2019 Diwali Vacation For Students
	4	5	6	7	8	9	10	6	11th to 18th Nov. 2019 First Unit Test
	11	12	13	14	15	16	17	5	19-11-2019 Guest Lecture
	18	19	20	21	22	23	24	6	22-11-2019 Parents Meeting
25	26	27	28	29	30		6	25-11-2019 Display of Result (First Unit Test)	
Dec.	Mo	Tue	We	Thu	Fri	Sat	Sun		
							1	0	
	2	3	4	5	6	7	8	5	16th to 21st Dec. 2019 Second Unit Test
	9	10	11	12	13	14	15	5	26-12-2019 Display of Result (Second Unit Test)
	16	17	18	19	20	21	22	5	
23	24	25	26	27	28	29	4		
30	31						2		
Jan.	Mo	Tue	We	Thu	Fri	Sat	Sun		
			1	2	3	4	5	3	17-01-2020 Last Teaching Day
	6	7	8	9	10	11	12	5	20th to 24th Jan. 2020 PUT Exam
	13	14	15	16	17	18	19	5	
	20	21	22	23	24	25	26	0	
27	28	29	30	31			0		
								72	Total Working Days

List of Holidays		
2 <sup>nd</sup>	Oct	: Gandhiji Jayanti
8 <sup>th</sup>	Oct	: Dassera
27 <sup>th</sup>	Oct	: Diwali
12 <sup>th</sup>	Nov.	: Guru Nanak Jayanti
25 <sup>th</sup>	Dec.	Christmas
26 <sup>th</sup>	Jan.	Republic Day

HoD



## **Department of Applied Sciences & Humanities**

**B.Tech First Year**

(Session 2018-19) EVEN

**Mechanism of internal assessment is transparent and robust  
in terms of frequency and mode**

- Academic calendar



Month	Days							Working Days	Activities
	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
December						1	2	0	29-12-2018 Faculty Contact Hour Finalization
	3	4	5	6	7	8	9	0	31-12-2018 Display of Time Table (Class/Section Wise)
	1	11	12	13	14	15	16	0	
	17	18	19	20	21	22	23	0	
	24	25	26	27	28	29	30	0	
	31							0	
January	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
		1	2	3	4	5	6	5	01-01-2019 Commencement of Classes
	7	8	9	10	11	12	13	6	26-01-2019 Republic Day Celebration
	14	15	16	17	18	19	20	6	28th Jan. to 01st Feb. 2019 First Unit Test
	21	22	23	24	25	26	27	5	
28	29	30	31				4		
February	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
					1	2	3	2	05-02-2019 Display of Result (First Unit Test)
	4	5	6	7	8	9	10	6	09-02-2019 Parents Teachers Meeting
	11	12	13	14	15	16	17	6	15-02-2019 Guest Lecture
	18	19	20	21	22	23	24	5	25th Feb. to 01st Mar. 2019 Second Unit Test
25	26	27	28				4		
March	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
					1	2	3	2	06-03-2019 Display of Result (Second Unit Test)
	4	5	6	7	8	9	10	5	16th to 20th Mar. 2020 - Department Activity
	11	12	13	14	15	16	17	6	25th to 31st Mar. 2019 Third Unit Test
	18	19	20	21	22	23	24	5	
25	26	27	28	29	30	31	6		
April	Mon	Tue	Wed	Thur	Fri	Sat	Sun		
	1	2	3	4	5	6	7	0	06-04-2019 Display of Result (Third Unit Test)
	8	9	10	11	12	13	14	0	03rd to 15th Apr. 2019 PUT Exam
	15	16	17	18	19	20	21	0	20-04-2019 Last Teaching Day
	22	23	24	25	26	27	28	0	20-04-2019 Display of Result (PUT)
29	30						0		
							0		
							73	Total Working Days	

List of Holidays	
25-12-2018	Christmas
26-01-2019	Republic Day
19-02-2019	Chhatrapati Shivaji Jayanti
04-03-2019	Mahashivratri
21-03-2019	Holi
06-04-2019	Gudipadva
13-04-2019	Shri Ram Navmi
17-04-2019	Mahavir Jayanti
19-04-2019	Good Friday

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
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**SECOND SEMESTER B. E. (2018-19)**

**ACADEMIC CALENDER**

Date -31/12/2018

SR. NO.	ACTIVITIES	DATE
1.	Commencement of Classes	01.01.2019
2.	First Unit Test	28.01.2019 to 01.02.2019
3.	Parents Meet	09.02.2019
4.	Guest Lecture	15.02.2019
5.	Second Unit Test	25.02.2019 to 01.03.2019
6.	Department Activity	16.03.2019 to 20.03.2019
7.	Third Unit Test	25.03.2019 to 31.03.2019
8.	PUT Exam	03.04.2019 to 15.04.2019
9.	N.U. Exam (Practical)	As per University Time Table
10.	N.U. Exam (Theory)	As per University Time Table

  
Mr. Kishor .N. Wagh .  
HOD, First Year B.E.  
Head of Department  
First Year B.E.  
GNIEET, Nagpur

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3. Circulation Among Staff
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## B.Tech First Year

(Session 2018-19)

### SESSIONAL EXAM- I, II TIMETABLES, SEATING ARRANGEMENT AND NOTICES (ODD)

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**Department of First Year Engineering**  
**B.Tech. First Year**  
**Session 2018-19 (EVEN)** **Date: 24-01-2019**

**Sessional-I Exam Notice**  
**(B.Tech. FIRST SEMESTER)**

All the students of First Year B.Tech. (Semester-I) are informed that the Sessional-II is to be scheduled from 28/01/2019 to 01/02/2019 & Time table has been displayed on the Notice Board.

***Instruction of Sessional Examination Winter 2019***

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge                      HOD                      Vice-Principal                      Principal

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (EVEN)**

**Date: 24.01.2019**

**Sessional-I Exam Notice**

**(B.Tech. FIRST SEMESTER)**

All the Faculties of First Year B.Tech. (Semester-I) are hereby informed that they have to submit question paper of their respective subject for **Sessional-I** which is to be scheduled from **28/01/2019 to 01/02/2019** on or before **Friday 25 January 2019**.

**Note:**

1. Format of question paper will send you on your mail.
2. Question paper covered syllabus upto Friday 25-01-2019
3. All Faculty must have to submit Question bank of 20 Questions of their respective subject on or before 25-01-2019
4. All Faculty must have to complete 2 Units of their respective subject.

Exam In- charge

HOD

Vice-Principal

Principal

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4. Associate Dean (Academics)

**GURU NANAK INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR**



## Department of First Year Engineering

**B.Tech. First Year  
Session 2018-19 (EVEN)**

**Date: 24.01.2019**

### Sessional-I Time Table

**(B.Tech. FIRST SEMESTER)**

Sr. No.	Date	Day	Time	Paper
1	28-01-19	Monday	11.00 am to 12.00 pm	Applied Mathematics 2
2	29-01-19	Tuesday	11.00 am to 12.00 pm	Advanced Physics
3	30-01-19	Wednesday	11.00 am to 12.00 pm	Material Chemistry
4	31-01-19	Thursday	11.00 am to 12.00 pm	Adv. Electrical Engg.
5	01-01-19	Thursday	11.00 am to 12.00 pm	Engineering Mechanics

### ***Instruction of Sessional Examination Winter 2018***

- Syllabus for exam will be 2 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge

HOD

Vice-Principal

Principal

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (EVEN)**

Date: 24-01-2019

**Sessional Exam Seating Arrangement (2018-19)**

<b>SR. NO.</b>	<b>ROOM NO.</b>	<b>ROLL NO.</b>	<b>NO. OF STUDENTS</b>
1	A 101	01 to 35	35
2	A 102	36 to 69	34
<b>Total no. of Students</b>			<b>69</b>

**Sessional Exam Incharge**

**HoD, ASH**

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (EVEN)**

**Date: 21-03-2019**

**Sessional Exam Seating Arrangement (2018-19)**

<b>SR. NO.</b>	<b>ROOM NO.</b>	<b>ROLL NO.</b>	<b>NO. OF STUDENTS</b>
1	A 101	01 to 35	35
2	A 102	36 to 69	34
<b>Total no. of Students</b>			<b>69</b>

**Sessional Exam Incharge**

**HoD, ASH**

**GURU NANAK INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR**



## Department of First Year Engineering

**B.Tech. First Year  
Session 2018-19 (EVEN)**

**Date: 21.03.2019**

### Sessional-II Exam Notice (B.Tech. FIRST SEMESTER)

All the Faculties of First Year B.Tech. (Semester-I) are hereby informed that they have to submit question paper of their respective subject for **Sessional-II** which is to be scheduled from **25/03/2019 to 31/03/2019** on or before **Friday 22 March 2019**.

**Note:**

1. Format of question paper will send you on your mail.
2. Question paper covered syllabus upto Friday 22-03-2019
3. All Faculty must have to submit Question bank of 20 Questions of their respective subject on or before 22-03-2019
4. All Faculty must have to complete 3 Units of their respective subject.

Exam In- charge

HOD

Vice-Principal

Principal

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**GURU NANAK INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR**



## Department of First Year Engineering

**B.Tech. First Year  
Session 2018-19 (EVEN)**

**Date: 21.03.2019**

### Sessional-II Exam Notice (B.Tech. FIRST SEMESTER)

All the Faculties of First Year B.Tech. (Semester-I) are hereby informed that they have to submit question paper of their respective subject for **Sessional-II** which is to be scheduled from **25/03/2019 to 31/03/2019** on or before **Friday 22 March 2019**.

**Note:**

1. Format of question paper will send you on your mail.
2. Question paper covered syllabus upto Friday 22-03-2019
3. All Faculty must have to submit Question bank of 20 Questions of their respective subject on or before 22-03-2019
4. All Faculty must have to complete 3 Units of their respective subject.

Exam In- charge

HOD

Vice-Principal

Principal

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3. Notice Board.
4. Associate Dean (Academics)

**GURU NANAK INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR**





**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (EVEN)**

**Date: 21-03-2019**

**Sessional-II Exam Notice  
(B.Tech. FIRST SEMESTER)**

All the students of First Year B.Tech. (Semester-I) are informed that the Sessional-II is to be scheduled from 25/03/2019 to 31/03/2019 & Time table has been displayed on the Notice Board.

***Instruction of Sessional Examination Summer 2019***

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge

HOD

Vice-Principal

Principal

**Copy To:-**

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2. Circulation among Students
3. Notice Board.
4. Associate Dean (Academics)

**GURU NANAK INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR**



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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (EVEN)**

**Date: 21.03.2019**

**Sessional-II Time Table**

**(B.Tech. FIRST SEMESTER)**

Sr. No.	Date	Day	Time	Paper
1	25-03-19	Monday	11.00 am to 12.00 pm	Applied Mathematics 2
2	26-03-19	Tuesday	11.00 am to 12.00 pm	Advanced Physics
3	27-03-19	Wednesday	11.00 am to 12.00 pm	Material Chemistry
4	28-03-19	Thursday	11.00 am to 12.00 pm	Adv. Electrical Engg.
5	29-03-19	Friday	11.00 am to 12.00 pm	Engineering Mechanics

***Instruction of Sessional Examination Winter 2019***

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

**Exam In- charge**

**HOD**

**Vice-Principal**

**Principal**

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## B.Tech First Year

(Session 2018-19)

### SESSIONAL EXAM- I, II TIMETABLES, SEATING ARRANGEMENT AND NOTICES (ODD)

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**Department of First Year Engineering**  
**B.Tech. First Year**  
Session 2018-19 (ODD) Date: 27-08-2018

**Sessional-I Exam Notice**  
**(B.Tech. FIRST SEMESTER)**

All the Faculties of **First Year B.Tech. (Semester-I)** are hereby informed that they have to submit question paper of their respective subject for **Sessional-I** which is to be scheduled from **01/09/2018 to 07/09/2018** on or before **Friday 31 August 2018**.

**Note:**

1. Format of question paper will send you on your mail.
2. Question paper covered syllabus upto Friday 30-08-2018
3. All Faculty must have to submit Question bank of 20 Questions of their respective subject on or before 29/08/2018.
4. All Faculty must have to complete 2 Units of their respective subject.

Exam In- charge	HOD	Vice-Principal	Principal
-----------------	-----	----------------	-----------

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (ODD)**

**Date: 27-08-2018**

**Sessional-I Time Table  
(B.Tech. FIRST SEMESTER)**

Sr. No.	Date	Day	Time	Paper
1	1-09-2018	Saturday	11.00 am to 12.00 pm	Applied Mathematics
2	3-09-2018	Monday	11.00 am to 12.00 pm	Eng. Physics
3	4-09-2018	Tuesday	11.00 am to 12.00 pm	Eng. Chemistry
4	5-09-2018	Wednesday	11.00 am to 12.00 pm	BEE
5	6-09-2018	Thursday	11.00 am to 12.00 pm	BCE
6	7-09-2018	Friday	11.00 am to 12.00 pm	EG-1
7	7-09-2018	Friday	2.00 pm to 3.00 pm	Communication Skills

***Instruction of Sessional Examination Winter 2018***

- Syllabus for exam will be 2 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge

HOD

Vice-Principal

Principal

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (ODD)**

**Date: 27-08-2018**

**Sessional Exam Seating Arrangement (2018-19)**

<b>SR. NO.</b>	<b>ROOM NO.</b>	<b>ROLL NO.</b>	<b>NO. OF STUDENTS</b>
1	A 101	01 to 35	35
2	A 102	36 to 69	34
<b>Total no. of Students</b>			<b>69</b>

**Sessional Exam Incharge**

**HoD, ASH**

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (ODD)**

**Date: 24-10-2018**

**Sessional-II Exam Notice**  
**(B.Tech. FIRST SEMESTER)**

All the students of First Year B.Tech. (Semester-I) are informed that the Sessional-II is to be scheduled from 29/10/2018 to 03/11/2018 & Time table has been displayed on the Notice Board.

***Instruction of Sessional Examination Summer 2019***

- *Syllabus for exam will be 3 units of respective subject*
- *Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.*
- *If any student fail to attend the exam, its mention as absent.*

Exam In- charge

HOD

Vice-Principal

Principal

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (ODD)**

**Date: 24-10-2018**

**Sessional-II Exam Notice**  
**(B.Tech. FIRST SEMESTER)**

All the Faculties of **First Year B.Tech. (Semester-I)** are hereby informed that they have to submit question paper of their respective subject for **Sessional-II** which is to be scheduled from **29/10/2018 to 03/10/2018** on or before **Friday 26 Oct. 2018**.

**Note:**

1. Format of question paper will send you on your mail.
2. Question paper covered syllabus upto Friday 26/10/2018
3. All Faculty must have to submit Question bank of 20 Questions of their respective subject on or before 26/10/2018
4. All Faculty must have to complete 3 Units of their respective subject.

**Exam In- charge                      HOD                      Vice-Principal                      Principal**

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (ODD)**

**Date: 24.10.2018**

**Sessional-II Time Table**

**(B.Tech. FIRST SEMESTER)**

Sr. No.	Date	Day	Time	Paper
1	29-10-2018	Monday	11.00 am to 12.00 pm	Applied Mathematics
2	30-10-2018	Tuesday	11.00 am to 12.00 pm	Eng. Physics
3	31-10-2018	Wednesday	11.00 am to 12.00 pm	Eng. Chemistry
4	01-10-2018	Thursday	11.00 am to 12.00 pm	BEE
5	02-10-2018	Friday	11.00 am to 12.00 pm	BCE
6	03-10-2018	Saturday	11.00 am to 12.00 pm	EG-1
7	03-10-2018	Saturday	2.00 pm to 3.00 pm	Communication Skills

**Instruction of Sessional Examination Winter 2018**

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam. Its mention as absent.

**Exam In- charge**

**HOD**

**Vice-Principal**

**Principal**

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (ODD)**

**Date: 26-10-2018**

**Sessional-II Exam Seating Arrangement (2018-19)**

<b>SR. NO.</b>	<b>ROOM NO.</b>	<b>ROLL NO.</b>	<b>NO. OF STUDENTS</b>
1	A 101	01 to 35	35
2	A 102	36 to 69	34
<b>Total no. of Students</b>			<b>69</b>

**Sessional Exam Incharge**

**HoD, ASH**

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2018-19 (ODD)**

Date: 27-08-2018

**Sessional-I Exam Notice**  
**(B.Tech. FIRST SEMESTER)**

All the students of First Year B.Tech, (Semester-I) are informed that the Sessional-I is to be scheduled from 1/09/2018 to 7/09/2018 & Time table has been displayed on the Notice Board.

***Instruction of Sessional Examination Winter 2018***

- Syllabus for exam will be 2 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge                      HOD                      Vice-Principal                      Principal

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4. Associate Dean (Academics)

**GURU NANAK INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR**



## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session 2019-20)

#### SESSIONAL EXAM- I, II TIMETABLES, SEATING ARRANGEMENT AND NOTICES (ODD)

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**Department of First Year Engineering**  
**B.Tech. First Year**  
**Session 2019-20 (ODD)** Date: 04-11-2019

**Sessional Exam Seating Arrangement (2019-20)**

SR. NO.	ROOM NO.	ROLL NO.	NO. OF STUDENTS
1	A 103	01 to 35	35
2	A 104	36 to 71	36
<b>Total no. of Students</b>			<b>71</b>

Sessional Exam Incharge HoD, ASH

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**Department of First Year Engineering**  
**B.Tech. First Year**  
Session 2019-20 (ODD)  
Date: 04-11-2019

**Sessional-I Time Table**  
(B.Tech. FIRST SEMESTER)

Sr. No.	Date	Day	Time	Paper
1	11-11-2019	Monday	11.15 am to 12.15 pm	Applied Mathematics
2	12-11-2019	Tuesday	11.15 am to 12.15 pm	Eng. Physics
3	13-11-2019	Wednesday	11.15 am to 12.15 pm	Eng. Chemistry
4	14-11-2019	Thursday	11.15 am to 12.15 pm	BEE
5	15-11-2019	Friday	11.15 am to 12.15 pm	BCE
6	16-11-2019	Saturday	11.15 am to 12.15 pm	EG-1
7	18-11-2019	Monday	11.15 am to 12.15 pm	Communication Skills

**Instruction of Sessional Examination Winter 2019**

- Syllabus for exam will be 2 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge      HOD      Vice-Principal      Principal

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## Department of First Year Engineering

**B.Tech. First Year**  
Session 2019-20 (ODD)

Date: 04-11-2019

### Sessional-I Exam Notice

**(B.Tech. FIRST SEMESTER)**

All the Faculties of **First Year B.Tech. (Semester-I)** are hereby informed that they have to submit question paper of their respective subject for **Sessional-I** which is to be scheduled from **11/11/2019 to 18/11/2019** on or before **Friday 08 November 2019**.

#### **Note:**

1. Format of question paper will send you on your mail.
2. Question paper covered syllabus upto Monday 08-11-2019
3. All Faculty must have to submit Question bank of 20 Questions of their respective subject on or before 07/11/2019.
4. All Faculty must have to complete 2 Units of their respective subject.

Exam In- charge

HOD

Vice-Principal

Principal

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## Department of First Year Engineering

B.Tech. First Year  
Session 2019-20 (ODD)

Date: 04-11-2019

### Sessional Exam Notice (B.Tech. FIRST SEMESTER)

All the students of First Year B.Tech. (Semester-I) are informed that the Sessional-I is to be scheduled from 11/11/2019 to 18/11/2019 & Time table has been displayed on the Notice Board.

#### *Instruction of Sessional Examination Winter 2019*

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge

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Vice-Principal

Principal

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2019-20 (ODD)**

**Date: 13-11-2019**

**Sessional-II Exam Seating Arrangement (2019-20)**

SR. NO.	ROOM NO.	ROLL NO.	NO. OF STUDENTS
1	A 103	01 to 35	35
2	A 104	36 to 71	36
<b>Total no. of Students</b>			<b>71</b>

**Sessional Exam Incharge**

**HoD, ASH**

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2019-20 (ODD)**

**Date: 11-12-2019**

**Sessional-II Time Table  
(B.Tech. FIRST SEMESTER)**

Sr. No.	Date	Day	Time	Paper
1	16-12-19	Monday	11.15 am to 12.15 pm	Applied Mathematics
2	17-12-19	Tuesday	11.15 am to 12.15 pm	Eng. Physics
3	18-12-19	Wednesday	11.15 am to 12.15 pm	Eng. Chemistry
4	19-12-19	Thursday	11.15 am to 12.15 pm	BEE
5	20-12-19	Friday	11.15 am to 12.15 pm	BCE
6	21-12-19	Saturday	11.15 am to 12.15 pm	EG-1
7	21-12-19	Saturday	2.00 pm to 3.00 pm	Communication Skills

**Instruction of Sessional Examination Winter 2019**

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge

HOD

Vice-Principal

Principal

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**Department of First Year Engineering**

**B.Tech. First Year  
Session 2019-20 (ODD)**

Date: 11-12-2019

**Sessional-II Time Table  
(B.Tech. FIRST SEMESTER)**

Sr. No.	Date	Day	Time	Paper
1	16-12-19	Monday	11.15 am to 12.15 pm	Applied Mathematics
2	17-12-19	Tuesday	11.15 am to 12.15 pm	Eng. Physics
3	18-12-19	Wednesday	11.15 am to 12.15 pm	Eng. Chemistry
4	19-12-19	Thursday	11.15 am to 12.15 pm	BEE
5	20-12-19	Friday	11.15 am to 12.15 pm	BCE
6	21-12-19	Saturday	11.15 am to 12.15 pm	EG-1
7	21-12-19	Saturday	2.00 pm to 3.00 pm	Communication Skills

**Instruction of Sessional Examination Winter 2019**

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

Exam In- charge

HOD

Vice-Principal

Principal

**Copy To:-**

1. Circulation among Staff.
2. Circulation among Students
3. Notice Board.
4. Associate Dean (Academics)

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### Department of First Year Engineering

**B.Tech. First Year  
Session 2019-20 (ODD)**

Date: 11-12-2019

#### Sessional-II Exam Notice (B.Tech. FIRST SEMESTER)

All the Faculties of **First Year B.Tech. (Semester-I)** are hereby informed that they have to submit question paper of their respective subject for **Sessional-II** which is to be scheduled from **16/12/2019 to 21/12/2019** on or before **Friday 13 December 2019**.

**Note:**

1. Format of question paper will send you on your mail.
2. Question paper covered syllabus upto Friday 13-12-2019
3. All Faculty must have to submit Question bank of 20 Questions of their respective subject on or before 12/12/2019.
4. All Faculty must have to complete 2 Units of their respective subject.

Exam In- charge

HOD

Vice-Principal

Principal

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**Department of First Year Engineering**  
**B.Tech. First Year**  
**Session 2019-20 (ODD)** **Date: 11-12-2019**

**Sessional-II Exam Notice**  
**(B.Tech. FIRST SEMESTER)**

All the students of First Year B.Tech. (Semester-I) are informed that the Sessional-II is to be scheduled from 16/12/2019 to 21/12/2019 & Time table has been displayed on the Notice Board.

***Instruction of Sessional Examination Summer 2019***

- Syllabus for exam will be 3 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

**Exam In- charge                      HOD                      Vice-Principal                      Principal**

**Copy To:-**

1. Circulation among Staff.
2. Circulation among Students
3. Notice Board.
4. Associate Dean (Academics)

**GURU NANAK INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR**



## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session 2018-20)

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Near Rudhi Soling, Soling, Kalmeshwar Road, Nagpur-441501

**MAIN ANSWER SHEET**

1. Name Of the Student: Khushi D. Kelwade 5. Year / Section: 1st / A

2. College Roll No: 21 6. Enrolled No: \_\_\_\_\_

3. Subject: Workshop

4. Sem / Branch: 2nd / ETC 7. Date: 12/3/20

Qu. No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

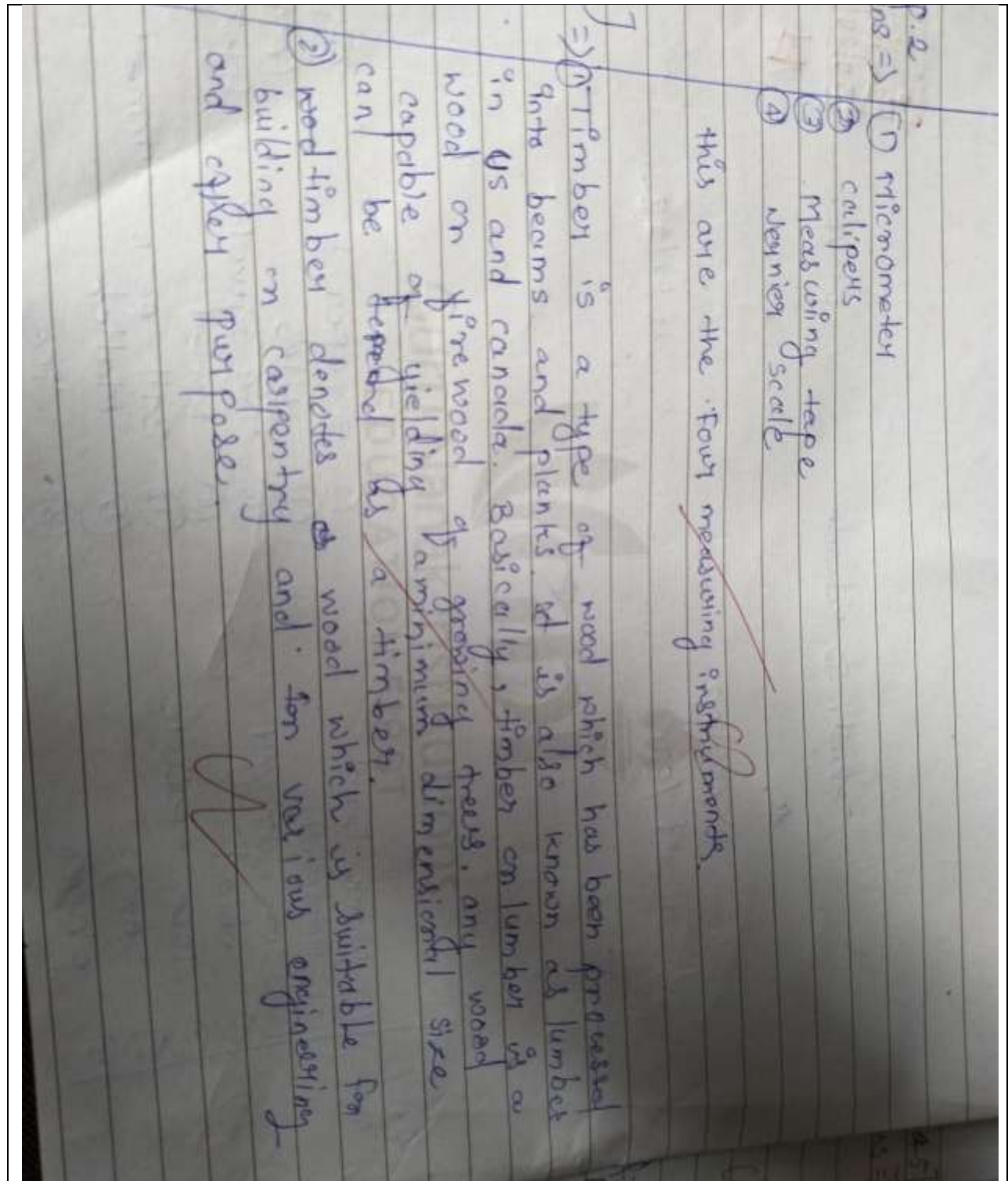
17

Qns =>

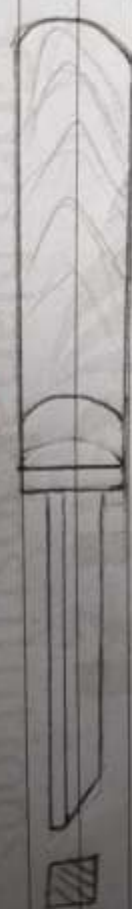
- 1) Work Bench
- 2) Hammer
- 3) Screwdriver
- 4) chisel
- 5) tape measure
- 6) Saws,
- 7) planes
- 8) Scaper
- 9) files
- 10) Try square
- 11) Reeler
- 12) Ball peen Hammer
- 13) Mallet
- 14) vice
- 15) marking gauge
- 16) Jack plane

of Temp.

P	Y	T
26	16	42
34	24	58



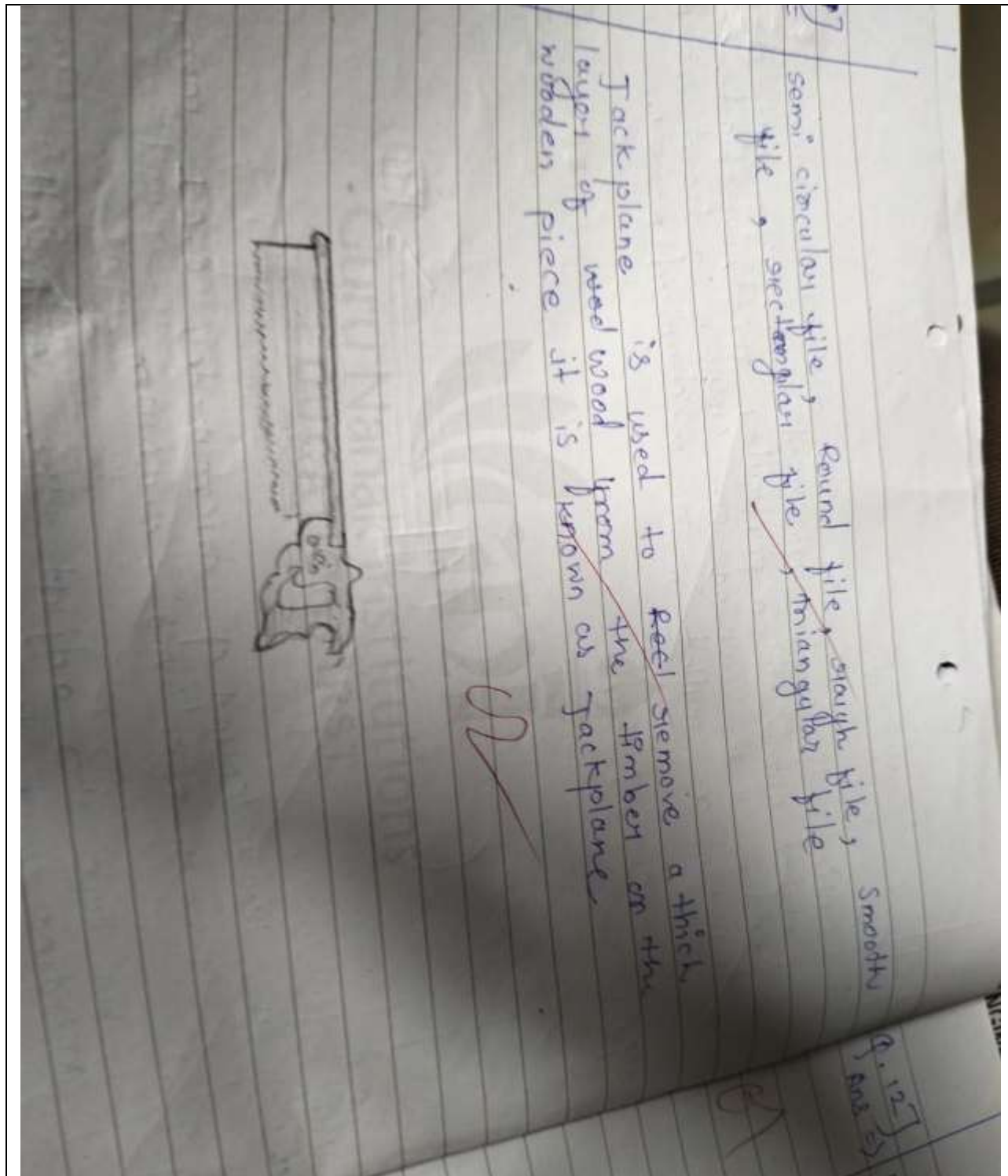
A chisel is a tool with a characteristically shaped cutting edge (such as wood chisels have tapered ends) held to a particular angle of blade on its side, for carving or cutting a hard stroke with a mallet, or mechanical power.



the least count of micrometer 0.01 mm  
0.5 mm  $\rightarrow$  50 lines = 0.01 mm

we have to adjust the spherometer according and has 50 lines on the dial

ANSWER SHEET

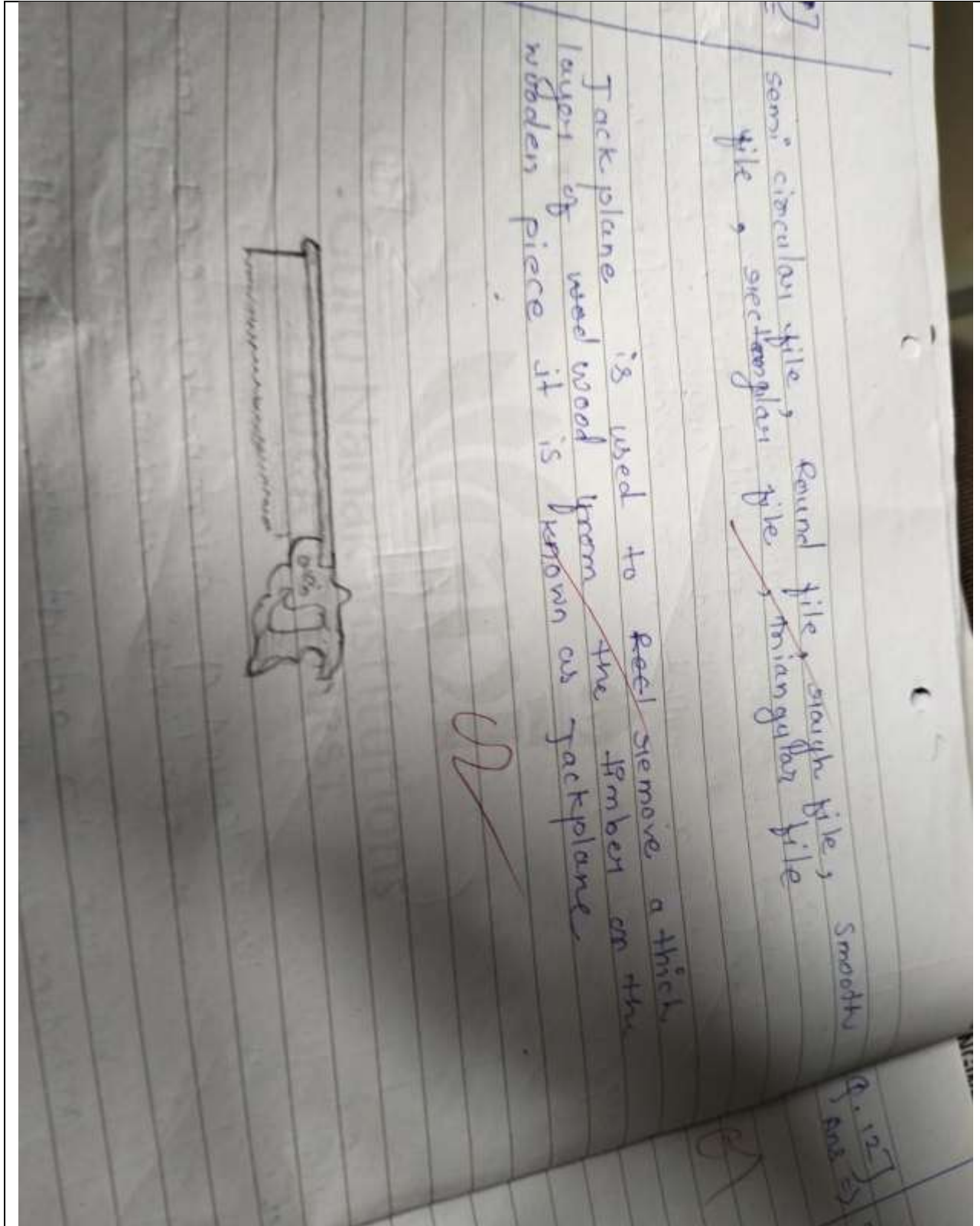


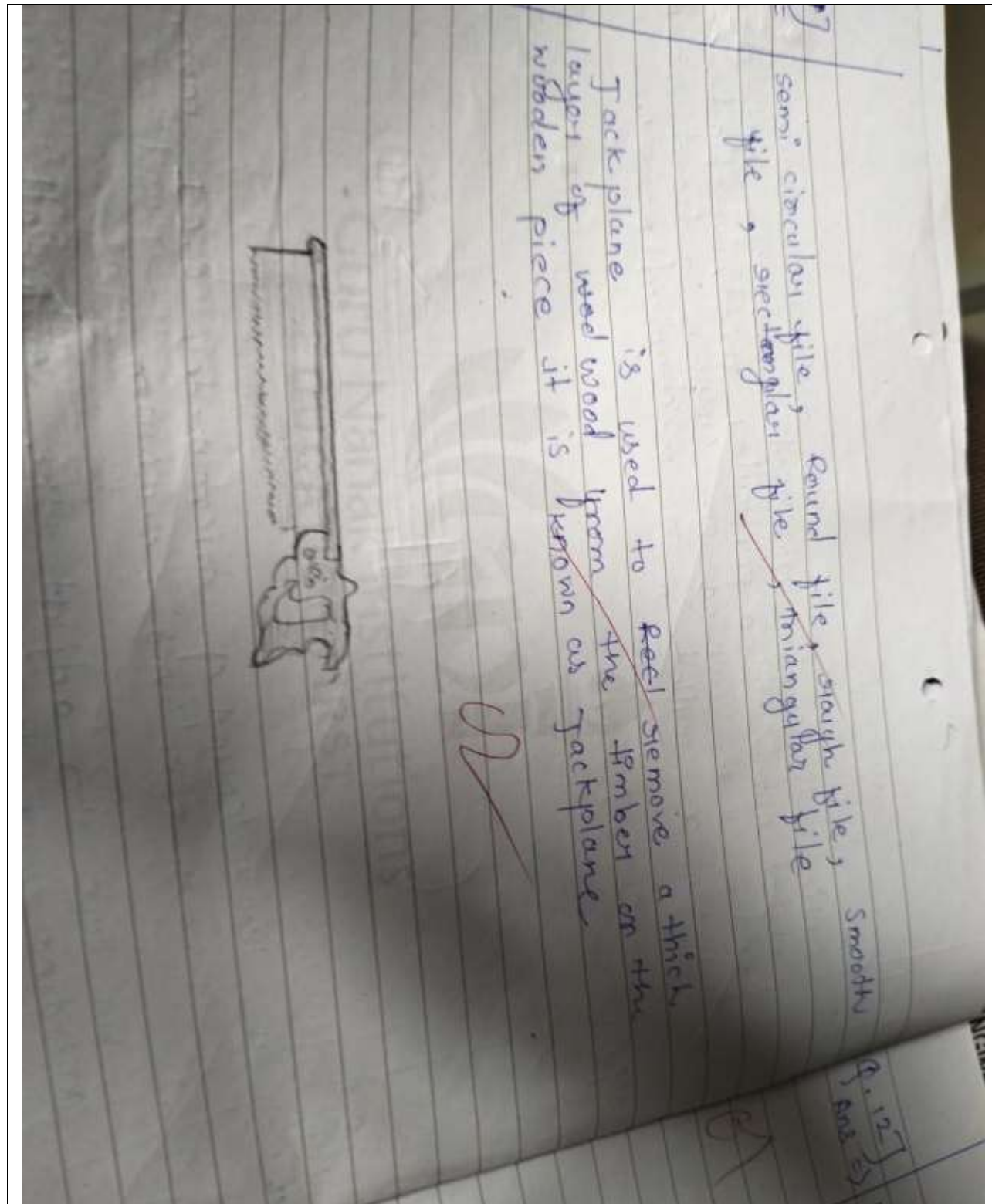


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27  
8-5) It is used for tool inspection or tool marking and also used for the layout marking.  
~~It is~~



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**MAIN ANSWER SHEET**

1. Name Of the Student: Khushi Fiske  
 2. College Roll No.: 12  
 3. Subject: Machshop  
 4. Sem / Branch: II<sup>nd</sup> / ETC.  
 5. Year / Section: 2<sup>nd</sup> / A  
 6. Enrollment No.: \_\_\_\_\_  
 7. Date: 12-07-2018

Qu. No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

(Solve Any 10)

Q.1) Name the tools required in carpentry shop.  
 Ans) The tools required in carpentry shop are  
 1. Plane  
 2. Chisel  
 3. Hammer  
 4. Square  
 5. Try square  
 6. Compass  
 7. Marking gauge  
 8. Mallet  
 9. Hand saw  
 10. Jointer

Q.2) Name the four measuring instruments used in carpentry.  
 Ans) The four measuring instruments used in carpentry are  
 1. Square  
 2. Try square  
 3. Compass  
 4. Marking gauge

Q.3) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar

Q.4) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar

Q.5) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar

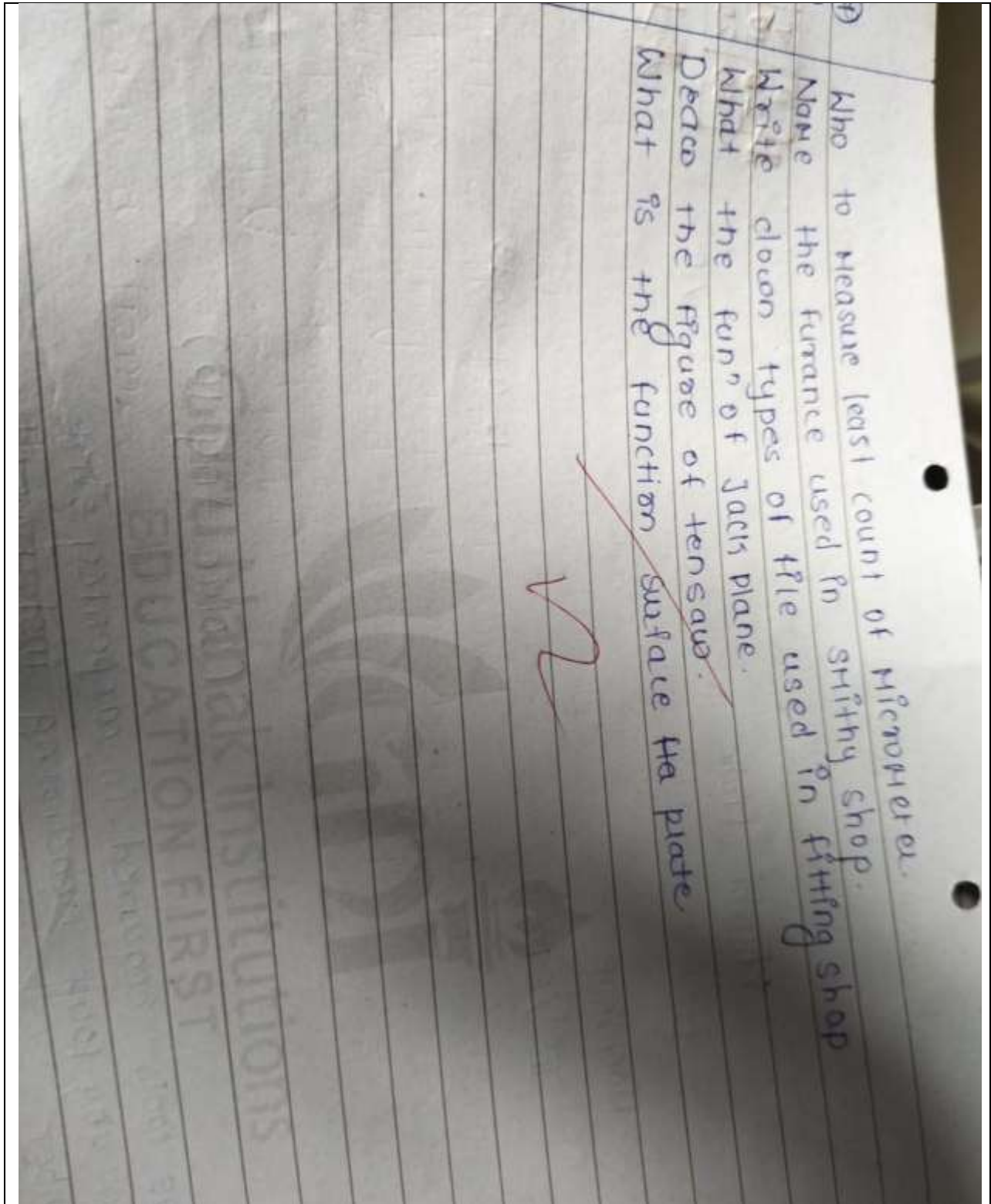
Q.6) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar

Q.7) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar

Q.8) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar

Q.9) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar

Q.10) Name the four types of wood used in carpentry.  
 Ans) The four types of wood used in carpentry are  
 1. Teak  
 2. Sal  
 3. Sheesham  
 4. Deodar





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Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



Q-1) What the tools required in carpentry shop?  
:- Bench vice, Hack saw, Plane, F. & Round file, Straight file, Chisel, T-square, Flat wooden hammer, Square measuring scale, Marking gauge, Steel rule, Carpenter bench vice, Try square, Mallet, Metal jaws, Mortise chisel, Firmer chisel, Tenon saw, Wood Rasp cut file etc.

Q-2) Write down any four measuring instrument.  
:- ① ~~Mark~~ Steel rule.  
② Peetreacter  
③ Measuring tape.  
④ Veneer scale.

What is timber  
Wood after cutting from trees and seasoning treatment (Removing reduce the moisture content in wood) is called as timber.

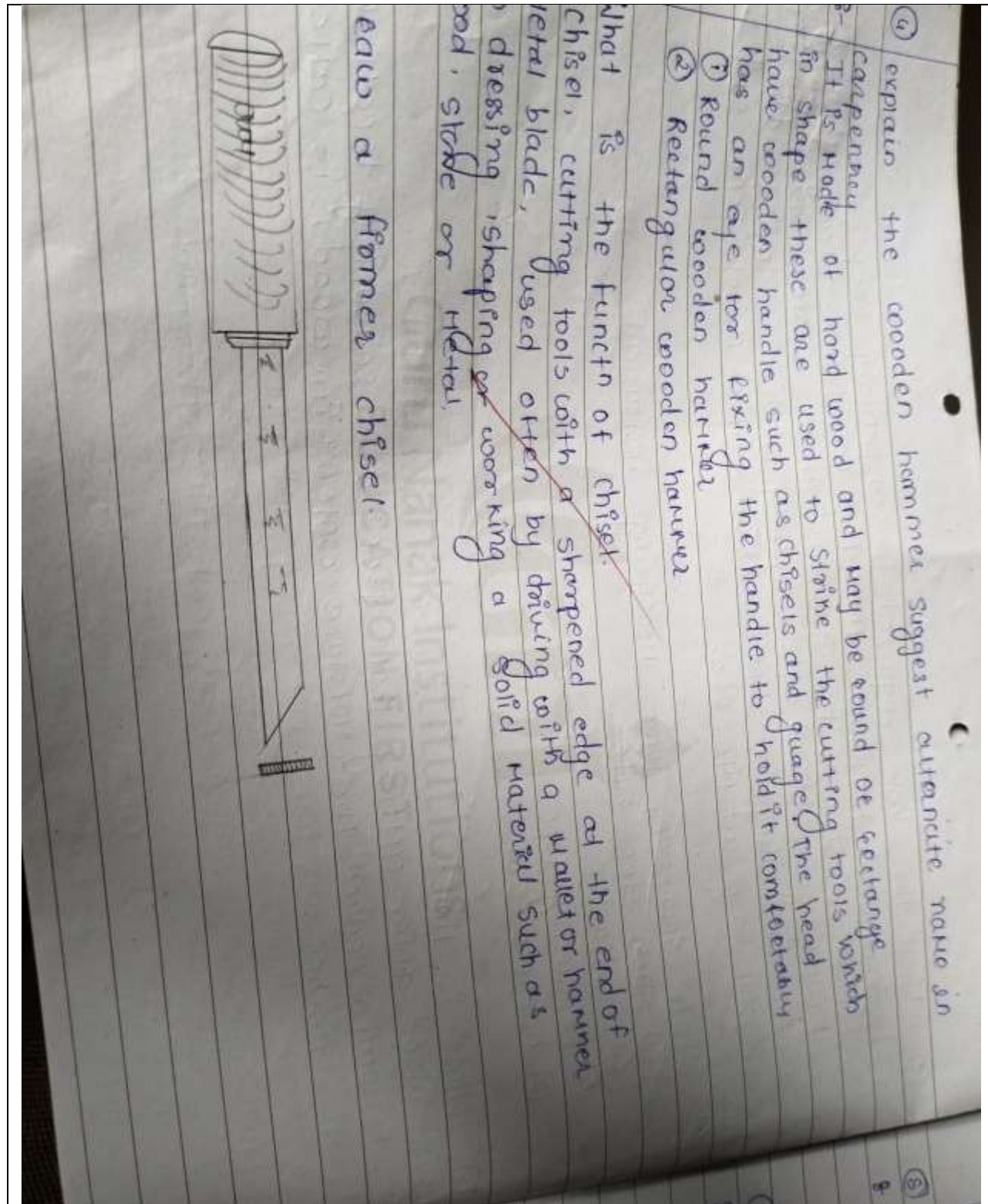


① What the tools required in carpentry shop?  
:- Bench vice, Hack saw, Plane, F & Round file, Straight file,  
Chisel, T-square, Flat wooden hammer, Square measuring scale  
Marking gauge, Steel rule, Carpenter bench vice, Try square,  
Mallet, Metal jaws, Mortise chisel, Firmer chisel, Tenon saw,  
Wood Rasp cut file etc.

:- Write down any four measuring instrument.  
① Marking Steel rule.  
② Peetreacter  
③ Measuring tape.  
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What is timber  
Wood after cutting from trees and seasoning treatment (Removing reduce the moisture content in wood) is called as timber.

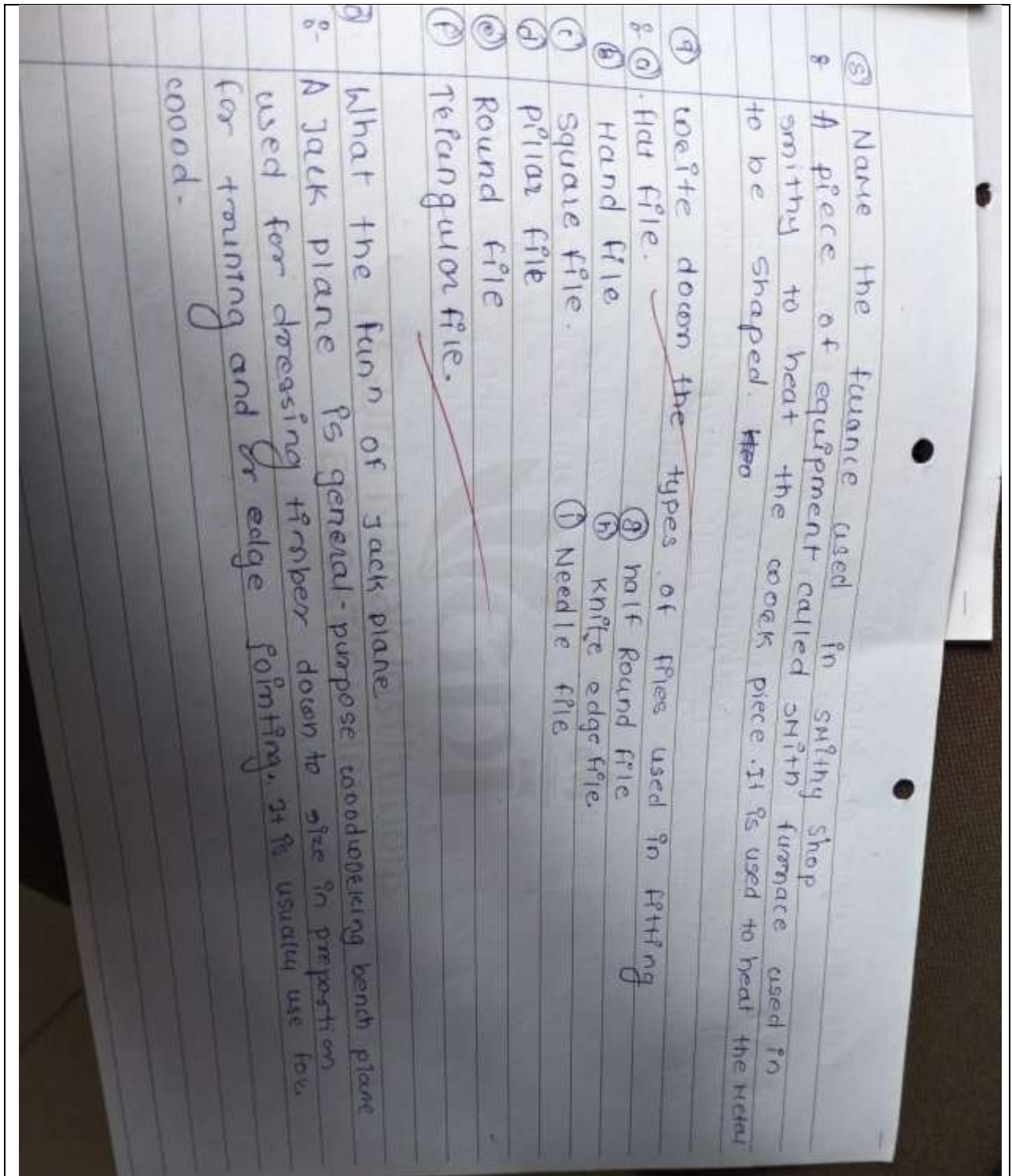






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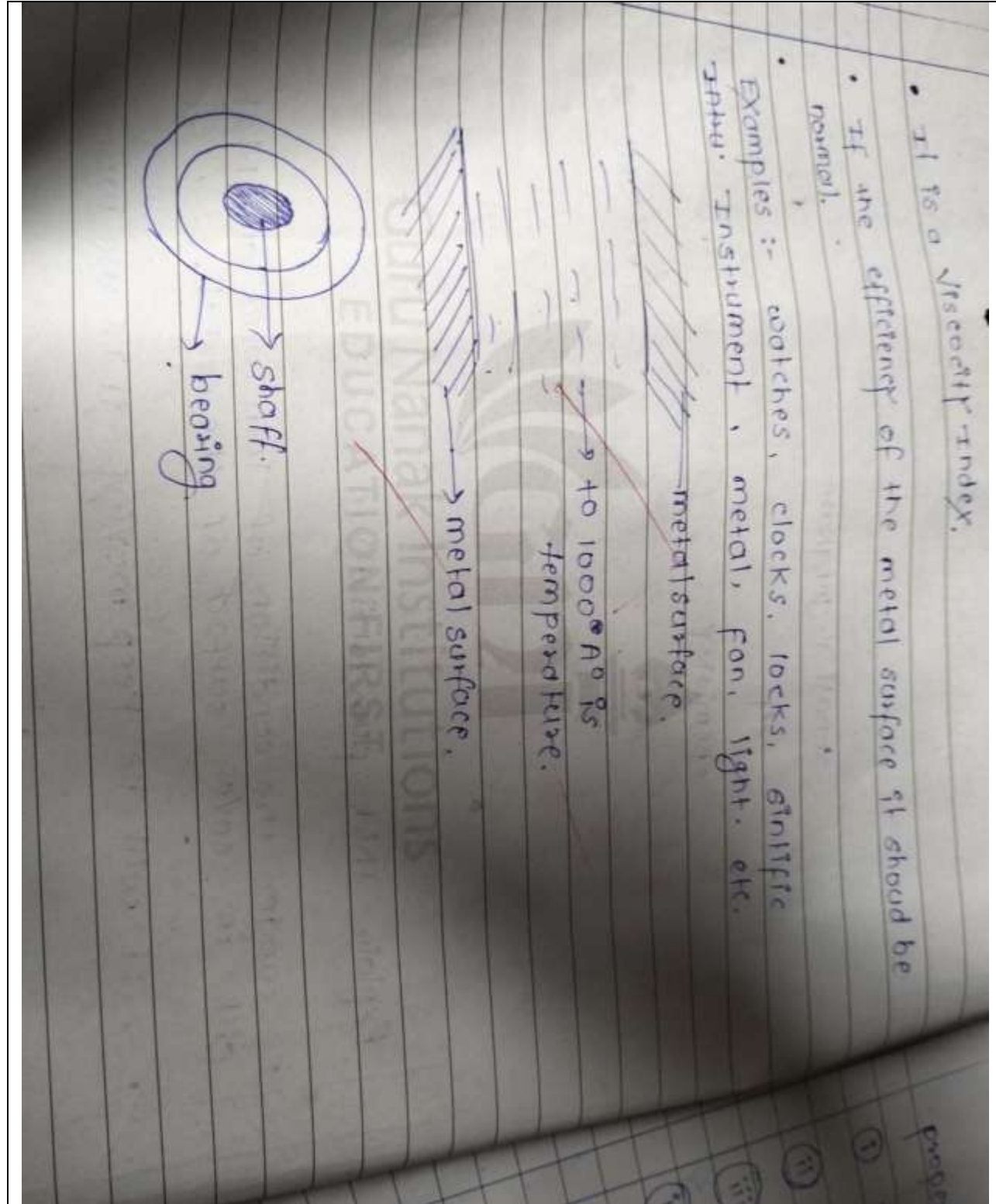
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**MAIN ANSWER SHEET**

1. Name Of the Student : Sonal Y. Jadhav  
2. College Roll No. : 94  
3. Subject : chemistry  
4. Sem / Branch : CSE  
5. Year / Section : E  
6. Enrollment No. : 192019  
7. Date : 01/03/2019

Q. No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

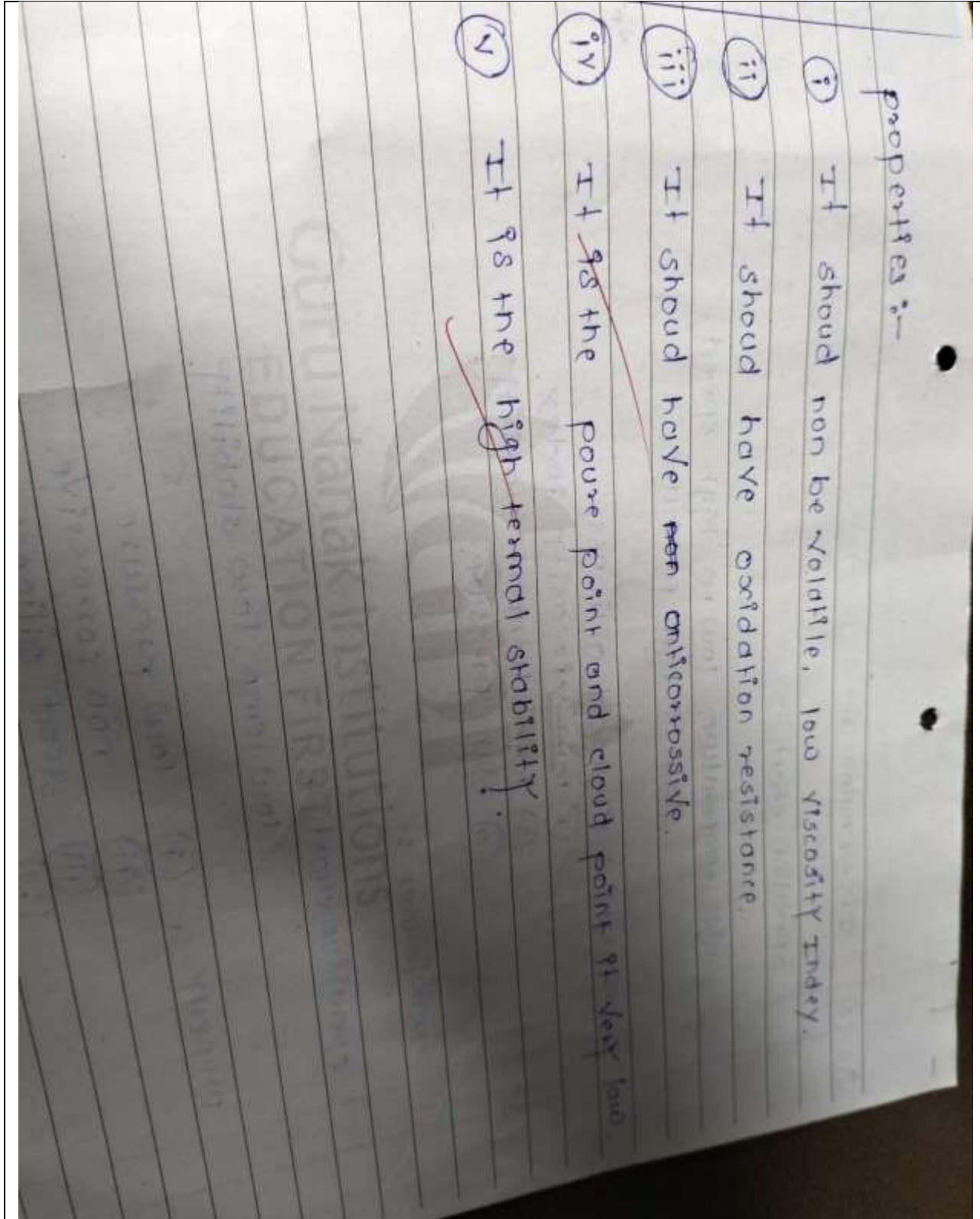
Explain thick film lubrication.  
under the condition of low load and high speed of the  
fill in cover surface of the metal.  
It will be keep moving. It is the 1000A° of temp.





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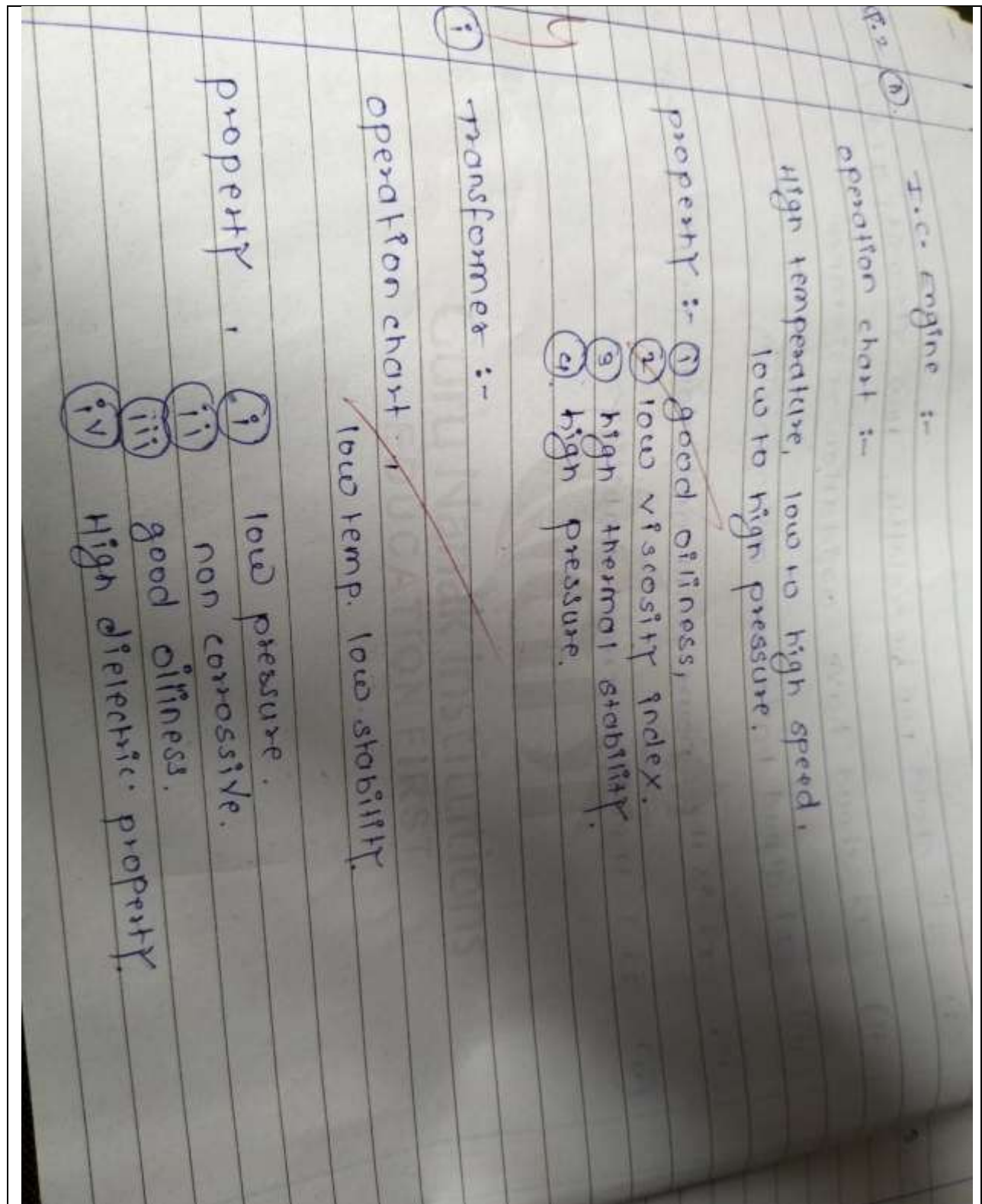


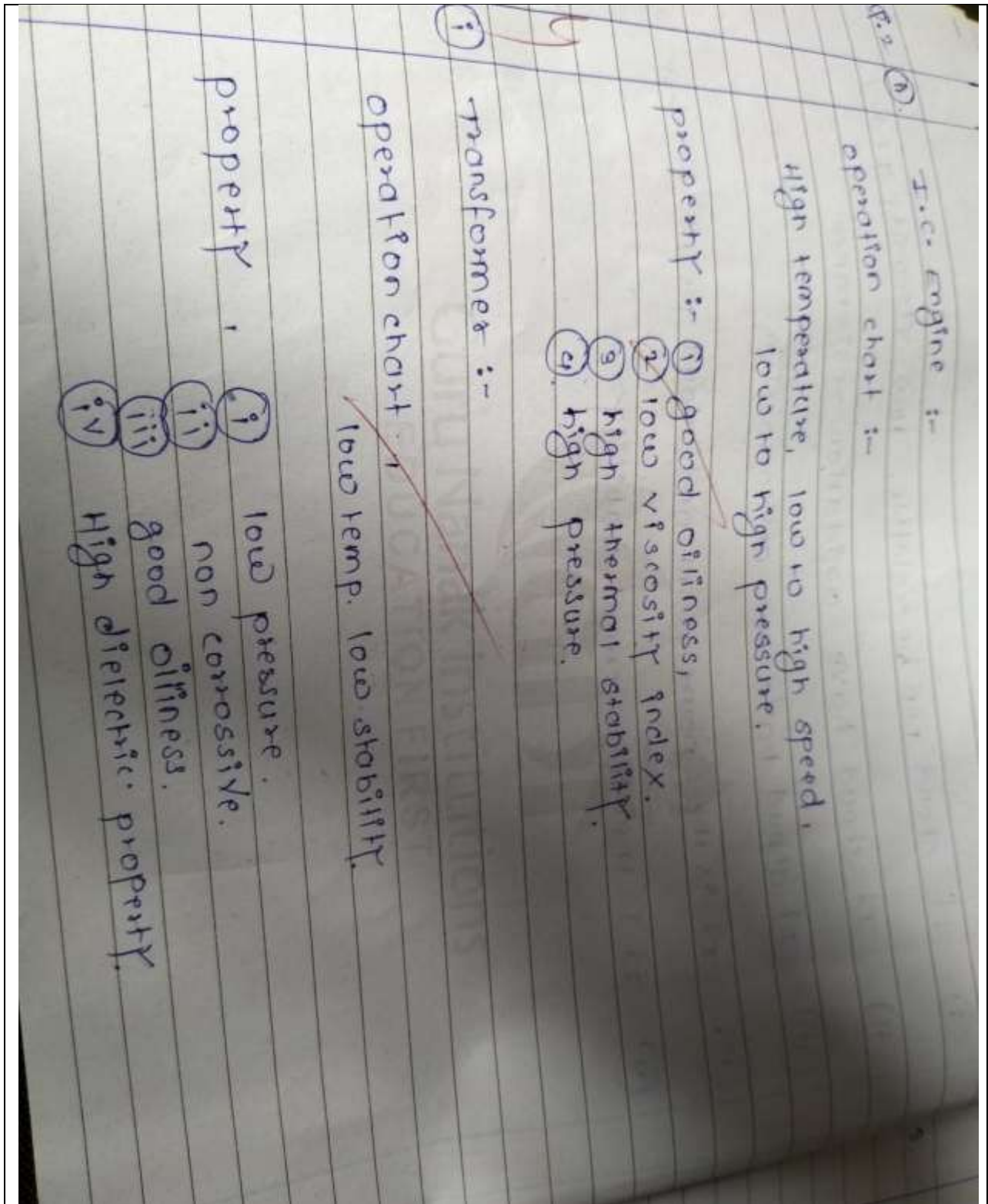


properties :-

- i) It should non be Volatile, low viscosity index.
- ii) It should have oxidation resistance.
- iii) It should have ~~non~~ anticorrosive.
- iv) It ~~is~~ the pour point and cloud point  $\approx$  very low
- v) It ~~is~~ the high thermal stability.





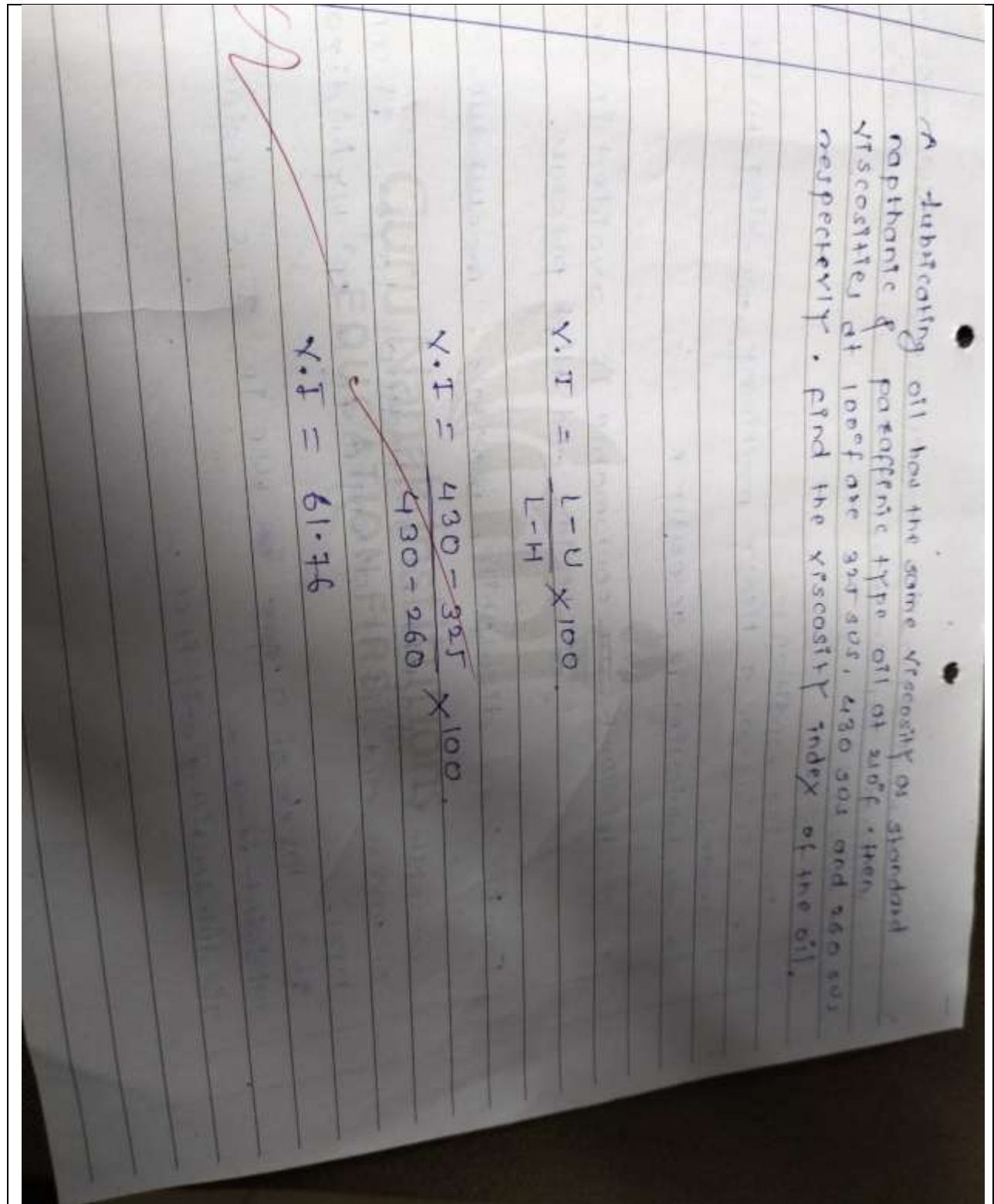




Q

A lubricating oil has the same viscosity as standard naphthanic & paraffinic type oil at 20°C. Then viscosities at 100°C are 325 SUS, 430 SUS and 260 SUS respectively. Find the viscosity index of the oil.

$$V.I = \frac{L-U}{L-H} \times 100$$
$$V.I = \frac{430 - 325}{430 - 260} \times 100$$
$$V.I = 61.76$$



Under what operating conditions solid lubricant are preferred & explain graphite as a solid lubricant with diagram.

operating condition s-

- It is used as a heavy machinery working to the crude.
- the lubricating is necessary.
- The lubricant are controllable is avoided in low temperature and high pressure.

Example :- disulphide, molybdenum disulphide.

Graphite :- Graphite is a structural layer. It consist of layers and it is arranged in a  $sp^2$  hybridization layer.

It is layer of a ~~gas~~ use in I.C engine.

~~Substance~~ is a

The lubrication of oil is a



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## **Department of Applied Sciences & Humanities**

### **B.Tech First Year**

(Session 2019-20)



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 Education First

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**MAIN ANSWER SHEET**

1. Name of the Student: Vishwan G. Shinde 5. Year / Section: 1st year  
 2. College Roll No.: 45  
 3. Subject: Electronics 6. Enrollment No.: \_\_\_\_\_  
 4. Sem / Branch: \_\_\_\_\_ 7. Date: 20/3/2018

Q. No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

1. Explain the die fabrication.

steel  
titanium nitriding

metal



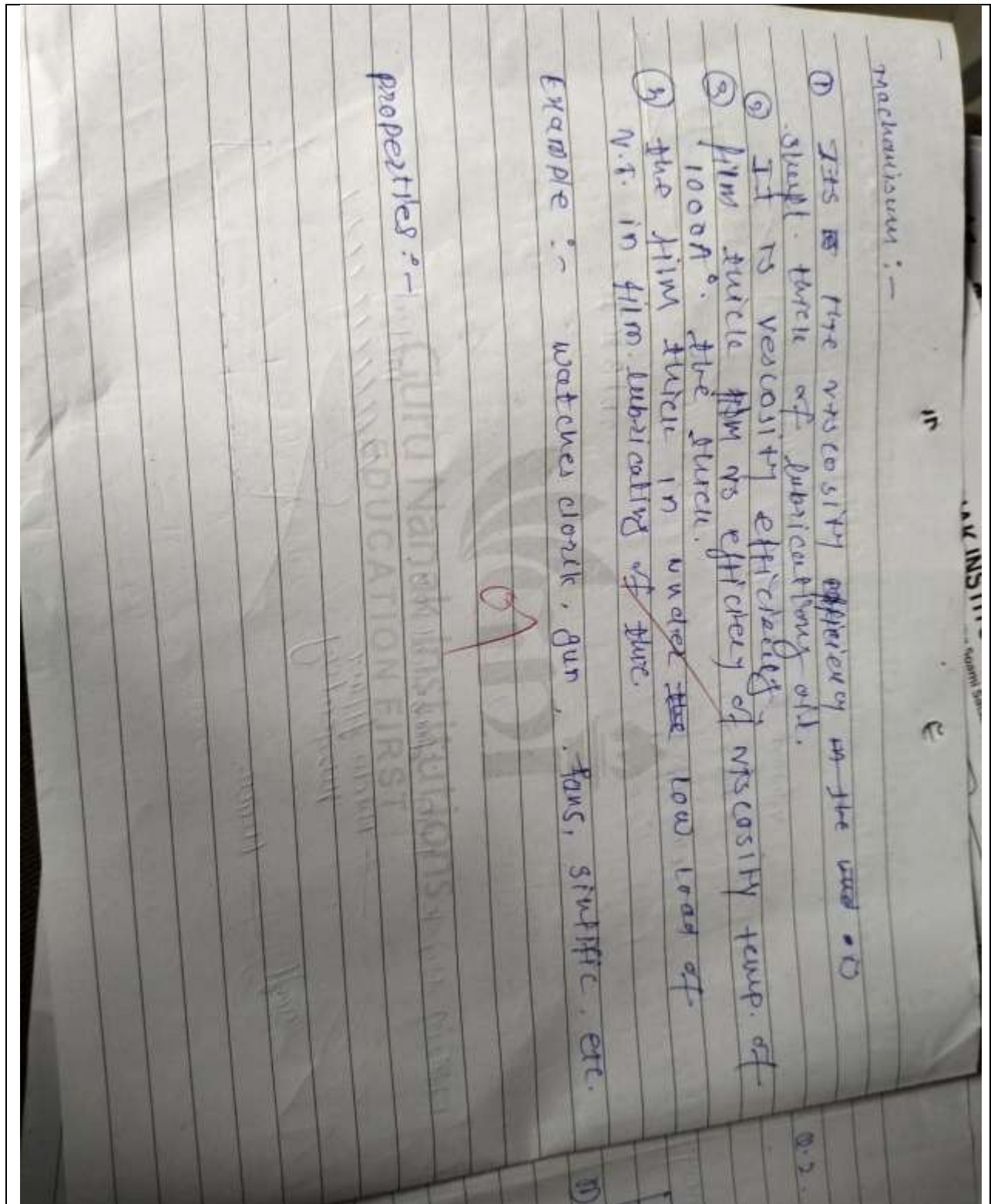
Mechanism :-

- ① It is the viscosity property in the used oil. It is the nature of lubricating oil.
- ② It is viscosity efficiency.
- ③ Film thickness film efficiency of viscosity temp. of 1000<sup>o</sup>. the thick.
- ④ the film thickness in under low load of N.T. in film lubricating of thick.

Example :- watches clock, gun, fans, scientific, etc.

properties :-







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Q.2. Write criteria for selection of turbocharger for IC engine.

① Turbocharger  
 ② RT engine.  
 ③ Steam turbine.

machinery	condition	properties
IC engine.	low temp, low to high, low to high pressure.	① high V.T. ② <del>good</del> storage efficiency ③ non-oxidation ④ good oiliness ⑤ high pressure stability ⑥ oxidation stability

② Turbochargers.



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steam. double. | Lubricating, high. |  
engine. | low pressure. | with, N.I.

3. A lubricating oil had the pour viscosity of 100 cP at 100°C and 260 cP at 210°C. The pour viscosity of the oil is 430 cP at 100°C. Find the viscosity index of the oil.

⇒ Given  
L = 430  
U = 328  
H = 260

~~L - U~~ × 100  
~~L - H~~

~~430 - 328~~ × 100  
~~430 - 260~~

= 61.76



Q.4. Under which operating conditions solid substrates are preferred? Explain graphite as a solid substrate with diagram.

⇒  
Solid substrate :-  
How old ~~the~~ in the conditions for the presence of stress. In the steam condition in absorption of old of

✓ Examples :-  
Ethanol

✓ Graphite :-  
①. ~~ETHANOL~~

(15/20)



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**MAIN ANSWER SHEET**

1. Name Of the Student : Anusha Dhore 5. Year / Section : A

2. College Roll No. : \_\_\_\_\_

3. Subject : \_\_\_\_\_ 6. Enrolment No. : \_\_\_\_\_

7. Date : 20.3.19

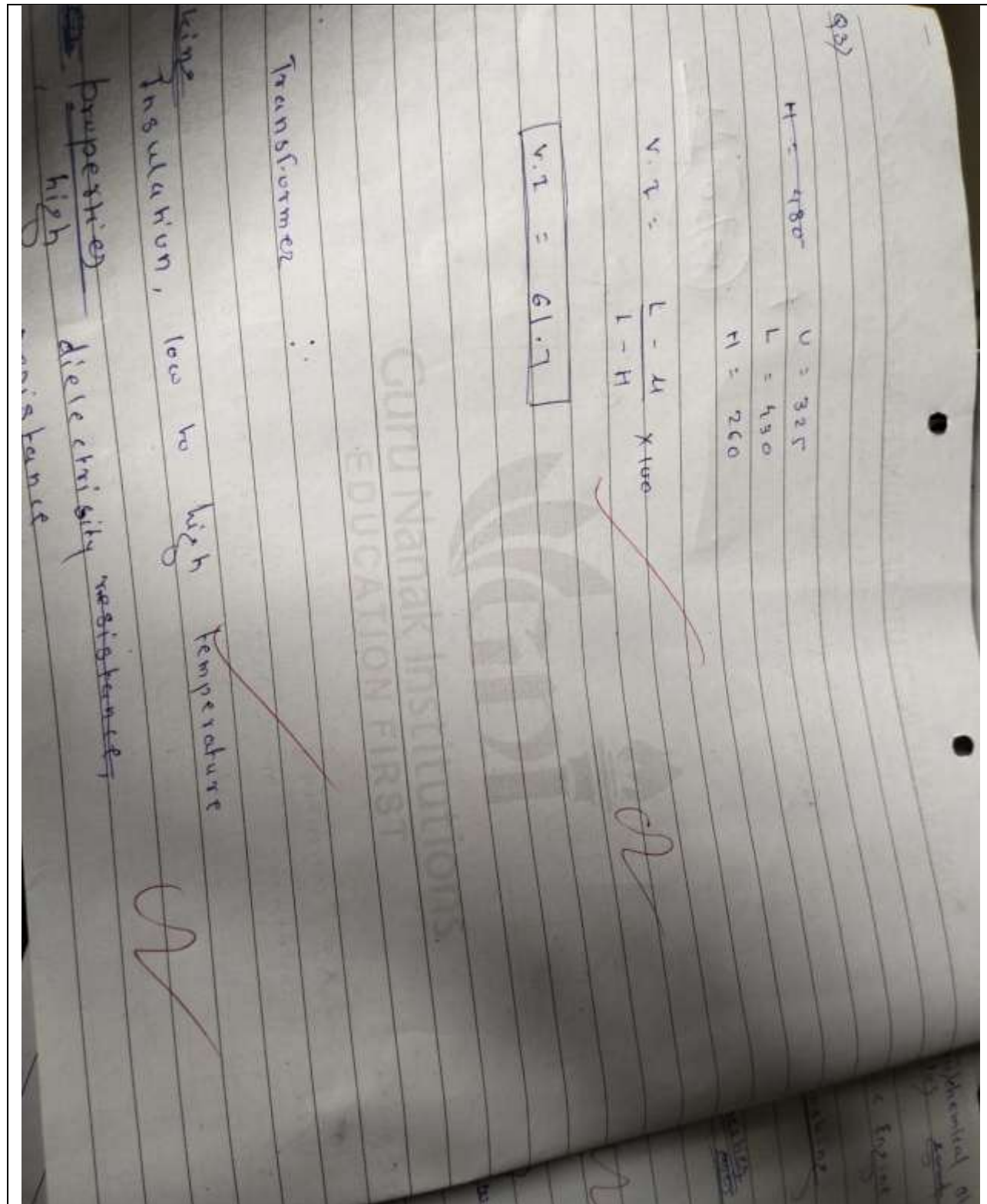
4. Sem / Branch : \_\_\_\_\_

Qu. No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

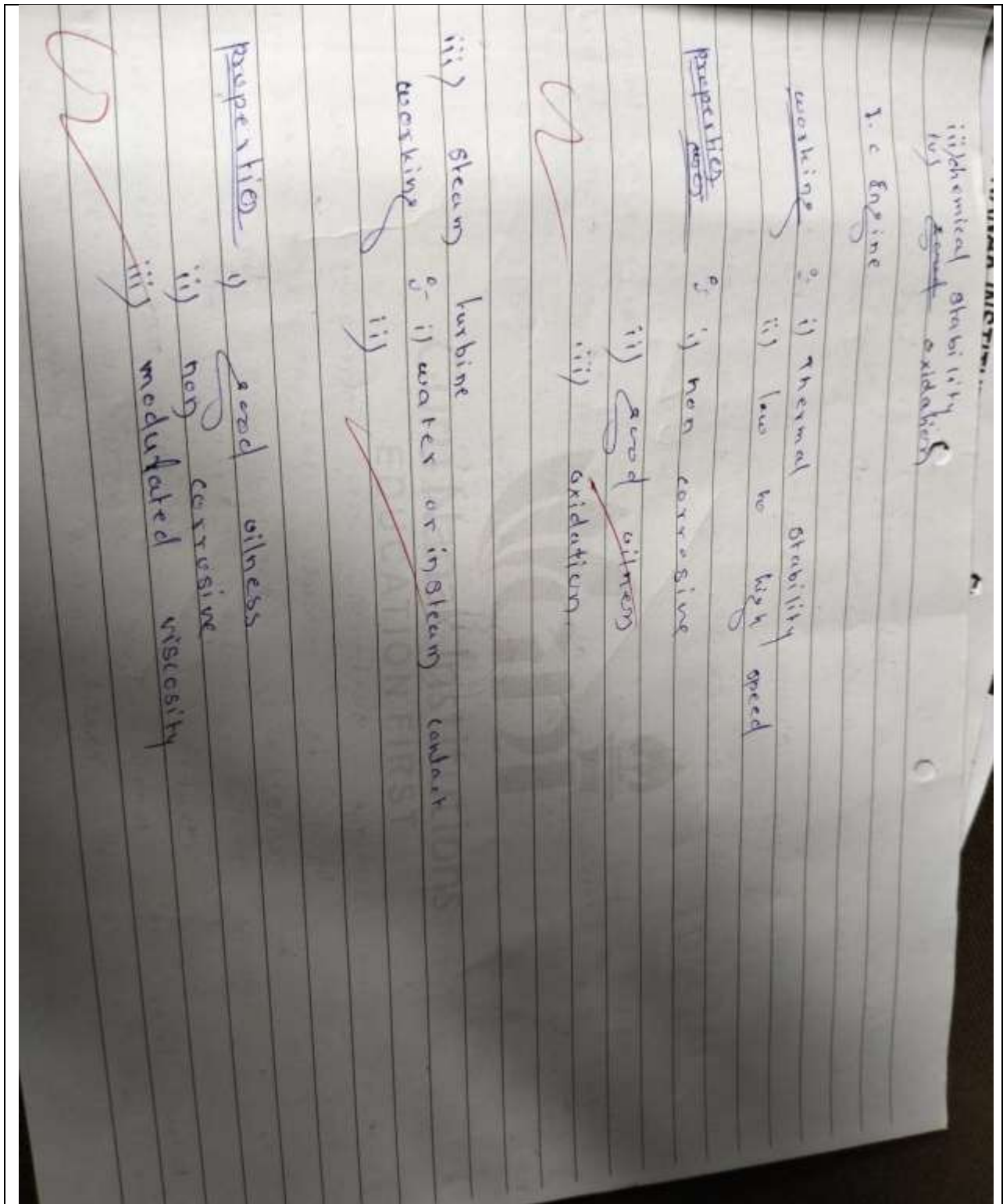
Handwritten notes on the left side of the page:

mechanism <sup>is</sup>  
at cardiac condition  
under condition at high speed and low

15/20 M









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Q1.) Under the condition of high speed and high viscosity it covers the irregularities of surface.

ii) it moves on sliding surface and with its viscosity it covers the irregularities of surface and the friction is reduced.

iii) The two sliding surfaces are separated from each other by a film of oil. The thickness of this film is thick.

iv) The two sliding surfaces are separated from each other by a film of oil. The thickness of this film is thick.

v) The two sliding surfaces are separated from each other by a film of oil. The thickness of this film is thick.

Ex: ∴ Swelling machine, watches, scientific device.

Thick film is used for cover the irregularities on surface of shaft and bearing.

3. A lubricating oil has the same viscosity as standard paraffinic oil at 210°F. Their viscosities at 100°F are 825 SUS, 430 SUS and 260 SUS respectively. Find the viscosity index of the oil.

50, 150, 260

$V.I. = \frac{L-U}{L-H} \times 100$

$= \frac{430-325}{430-260} \times 100$

$V.I. = 61.764$

Explain Thick Film Lubrication.

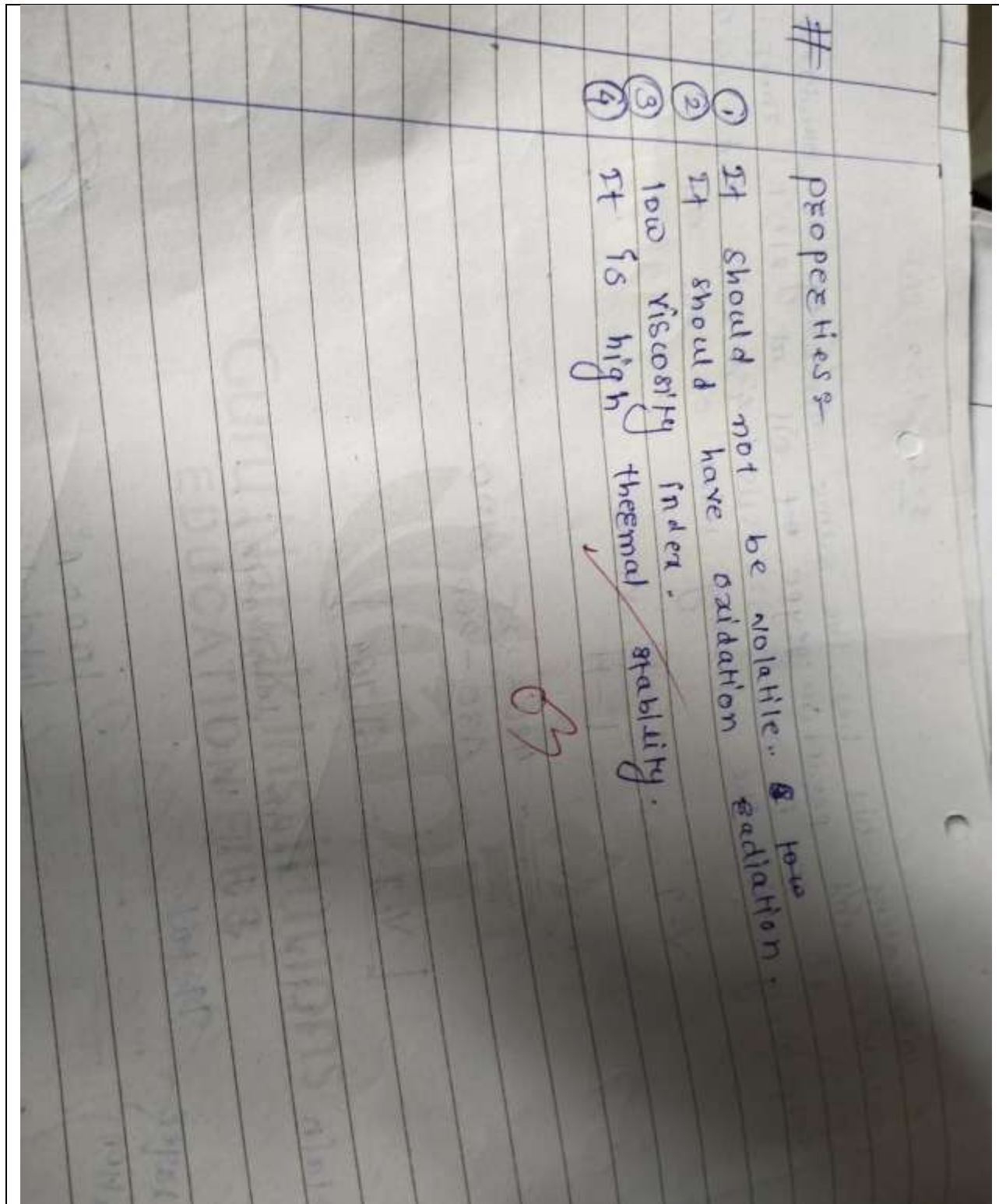
↓ ↓ ↓ load

1000 A°  
 Lubrication

shaft  
 Lubricating layer

Q2

Q1





## **Department of Applied Sciences & Humanities**

### **B.Tech First Year**

(Session: 2021-22)

#### **Internal assessment (Frequency, Mode and Transparency)**

- Notices regarding internal examination
- Exam Time Tables
- Display of Question Banks
- Internal Exam Question Papers



Guru Nanak Educational Society's  
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 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Semester: 2021-2022 (EVEN) Date: 06/07/2022

**EXTERNAL PRACTICAL EXAMINATION SUMMER 2022**  
**NOTICE**  
 (B. Tech. SECOND SEMESTER)

All the Students of First Year B. Tech. (Semester-II) are hereby informed that the External Practical Exam is to be scheduled from 23/07/2022 to 27/07/2022 & Time Table has been displayed on the Notice Board.

**Description of External Practical Examination Summer 2022**

- Exams will be conducted using offline mode only.
- Students can view the syllabus of the exam on the notice board. Also, copies of the syllabus will be provided to the students on request.
- Students must carry their own pen/ ballpoint pen. Also, they must carry their own calculator.
- Students must carry their own stationery.
- Students must carry their own calculator.
- Students must carry their own calculator.
- Students must carry their own calculator.
- Students must carry their own calculator.

Exam in charge: HOD, Academic Dean, Vice-Principal, Principal

Copy To: 1. Circulate among Students, 2. Notice Board

Prof. Prakash Wankar, Prof. Divya Londe, Prof. Pratik Wankar, Prof. Manoj Chougale, Prof. Nishu Wankar

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**EXTERNAL PRACTICAL EXAMINATION SUMMER 2022**  
**NOTICE**  
 (B. Tech. SECOND SEMESTER)

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Exam in charge: HOD, Academic Dean, Vice-Principal, Principal

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Semester: 2021-2022 (EVEN) Date: 06/07/2022

**External Practical Examination Time Table Summer 2022**

Sr. No.	Date	Day	Time	Batch	Paper
81	23-07-2022	Saturday	10:00 am to 01:00 pm	BATCH I	WORKSHOP
			02:00 pm to 04:00 pm	BATCH II	APPLIED CHEMISTRY
			05:00 pm to 07:00 pm	BATCH I	APPLIED CHEMISTRY
82	24-07-2022	Sunday	10:00 am to 02:00 pm	BATCH I	WORKSHOP
			03:00 pm to 05:00 pm	BATCH II	ADVANCED ENGINEERING MATHS
83	26-07-2022	Tuesday	10:00 am to 01:00 pm	BATCH I	COMPUTATIONAL SKILLS
			02:00 pm to 04:00 pm	BATCH II	COMPUTATIONAL SKILLS
84	27-07-2022	Wednesday	02:00 pm to 04:00 pm	BATCH I	ADVANCED ENGINEERING MATHS

**Description of External Practical Examination Summer 2022**

- Exams will be conducted using offline mode only.
- Students can view the syllabus of the exam on the notice board. Also, copies of the syllabus will be provided to the students on request.
- Students must carry their own pen/ ballpoint pen. Also, they must carry their own calculator.
- Students must carry their own stationery.
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Exam in charge: HOD, Academic Dean, Vice-Principal, Principal

Copy To: 1. Circulate among Students, 2. Notice Board

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 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Semester: 2021-22 (EVEN)

**EXTERNAL PRACTICAL EXAMINATION SUMMER - 2022**  
**BATCH - I**

Sr. No.	University Seat Number	Student Name
Branch - Computer Science Engineering		
1	403012	DEVIKASHI SHREYAS KUMAR
2	403013	DEVIKASHI SHREYAS KUMAR
3	403014	DEVIKASHI SHREYAS KUMAR
4	403015	DEVIKASHI SHREYAS KUMAR
5	403016	DEVIKASHI SHREYAS KUMAR
6	403017	DEVIKASHI SHREYAS KUMAR
7	403018	DEVIKASHI SHREYAS KUMAR
8	403019	DEVIKASHI SHREYAS KUMAR
9	403020	DEVIKASHI SHREYAS KUMAR
10	403021	DEVIKASHI SHREYAS KUMAR
11	403022	DEVIKASHI SHREYAS KUMAR
12	403023	DEVIKASHI SHREYAS KUMAR
13	403024	DEVIKASHI SHREYAS KUMAR
14	403025	DEVIKASHI SHREYAS KUMAR
15	403026	DEVIKASHI SHREYAS KUMAR
16	403027	DEVIKASHI SHREYAS KUMAR
17	403028	DEVIKASHI SHREYAS KUMAR
18	403029	DEVIKASHI SHREYAS KUMAR
19	403030	DEVIKASHI SHREYAS KUMAR
20	403031	DEVIKASHI SHREYAS KUMAR
21	403032	DEVIKASHI SHREYAS KUMAR
22	403033	DEVIKASHI SHREYAS KUMAR
23	403034	DEVIKASHI SHREYAS KUMAR
24	403035	DEVIKASHI SHREYAS KUMAR
25	403036	DEVIKASHI SHREYAS KUMAR
26	403037	DEVIKASHI SHREYAS KUMAR
27	403038	DEVIKASHI SHREYAS KUMAR
28	403039	DEVIKASHI SHREYAS KUMAR
29	403040	DEVIKASHI SHREYAS KUMAR
30	403041	DEVIKASHI SHREYAS KUMAR
31	403042	DEVIKASHI SHREYAS KUMAR
32	403043	DEVIKASHI SHREYAS KUMAR
33	403044	DEVIKASHI SHREYAS KUMAR
34	403045	DEVIKASHI SHREYAS KUMAR
35	403046	DEVIKASHI SHREYAS KUMAR
36	403047	DEVIKASHI SHREYAS KUMAR
37	403048	DEVIKASHI SHREYAS KUMAR
38	403049	DEVIKASHI SHREYAS KUMAR
39	403050	DEVIKASHI SHREYAS KUMAR



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 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session 2021-22 (EVEN)  
**EXTERNAL PRACTICAL EXAMINATION SUMMER - 2022**  
**BATCH - 1**

Sl. No.	University Seat Number	Student Name
26	403667	BHINVADE PRATHMASHIVJI AM
27	403668	CLARE PRIYANKA RAJESH
28	403669	CHAVHAN PRYANKA SURESH
29	403670	WANVE RAJU RAMBASTAN
30	403671	TEMBHARE RAJESH RAJESHRA
31	403672	WANKHAR RITENDRAJI SHI
32	403673	BHARGAVA ACHYUTKANT
33	403674	KHARPURE RISHI SATISH B
34	403675	DEBUSHI RAJESHJI SHRI
35	403676	DEWASHI TIWARI SANKHAR VIKAS
36	403677	GHARDE SATISH PANCHAM
37	403678	CHANDREKAR AMY ANANAS
38	403679	RAVISHI SHRI SHRI YASHWANTI
39	403680	GHOSHRAJESHJI SURESHJI DADAR
40	403681	GAJAPATI KASIM SHAIKH
41	403682	GHANDRE SURESHJI SURESHJI
42	403683	DEOTI SURAJ SHRI
43	403684	MAJUMDAR NISHU MAYA
44	403685	KHARDEANANAS ANAY RAJESHRA
45	403686	PODHE DEEPAKUMAR NITIN
46	403687	BAWANE DEVI SHIKHARJANAS
47	403688	RAMNATH RAMNATH MURTE
48	403689	GAJAPATI VIKAS RAJESHRA
49	403690	VIRKAR VIKASRAJ SHIVAN
50	403691	LOHARE YASHWANT ANKUSH

Prof. Santal Gaurav  
 WOD  
 ASSE. CNDET

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**EXTERNAL PRACTICAL EXAMINATION SUMMER - 2022**  
**BATCH - 2**

Sl. No.	University Seat Number	Student Name
Branch - Electronic & Telecommunication Engineering		
1	403700	SHAIKH SHAMSHUL KADIR
2	403701	SHAIKH SHAMSHUL KADIR
3	403702	SHAIKH SHAMSHUL KADIR
4	403703	SHAIKH SHAMSHUL KADIR
5	403704	SHAIKH SHAMSHUL KADIR
6	403705	SHAIKH SHAMSHUL KADIR
7	403706	SHAIKH SHAMSHUL KADIR
8	403707	SHAIKH SHAMSHUL KADIR
9	403708	SHAIKH SHAMSHUL KADIR
10	403709	SHAIKH SHAMSHUL KADIR
11	403710	SHAIKH SHAMSHUL KADIR
12	403711	SHAIKH SHAMSHUL KADIR
13	403712	SHAIKH SHAMSHUL KADIR
14	403713	SHAIKH SHAMSHUL KADIR
15	403714	SHAIKH SHAMSHUL KADIR
16	403715	SHAIKH SHAMSHUL KADIR
17	403716	SHAIKH SHAMSHUL KADIR
18	403717	SHAIKH SHAMSHUL KADIR
19	403718	SHAIKH SHAMSHUL KADIR
20	403719	SHAIKH SHAMSHUL KADIR
21	403720	SHAIKH SHAMSHUL KADIR
22	403721	SHAIKH SHAMSHUL KADIR
23	403722	SHAIKH SHAMSHUL KADIR
24	403723	SHAIKH SHAMSHUL KADIR
25	403724	SHAIKH SHAMSHUL KADIR
26	403725	SHAIKH SHAMSHUL KADIR
27	403726	SHAIKH SHAMSHUL KADIR
28	403727	SHAIKH SHAMSHUL KADIR
29	403728	SHAIKH SHAMSHUL KADIR
30	403729	SHAIKH SHAMSHUL KADIR
Branch - Electrical Engineering		
31	403730	VERMA AYUSH VINOD
32	403731	PALSHIKAR GANESH SURESHRAJ
33	403732	KADYADKAR SHRIHARI SHRIHARI

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 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session 2021-22 (EVEN)  
**EXTERNAL PRACTICAL EXAMINATION SUMMER - 2022**  
**BATCH - 2**

Sl. No.	University Seat Number	Student Name
34	403733	RAYDE SHANISH SURESH
35	403734	KHARDEANANAS ANAY RAJESHRA
36	403735	KALU PRANAV MAYURAJ
37	403736	BAGDE PRINSHITA BSVI
38	403737	DHARMANDEBU PRINSHITA SHI
39	403738	TIJAS RADAN ANS RAJESHRA
40	403739	TILAK VIKAS KASHANAS
41	403740	MAHOLLE PRINSHITA SHI
42	403741	MAHOLLE PRINSHITA SHI
43	403742	MAHOLLE PRINSHITA SHI
44	403743	MAHOLLE PRINSHITA SHI
45	403744	MAHOLLE PRINSHITA SHI
46	403745	MAHOLLE PRINSHITA SHI
47	403746	MAHOLLE PRINSHITA SHI
48	403747	MAHOLLE PRINSHITA SHI
49	403748	MAHOLLE PRINSHITA SHI
50	403749	MAHOLLE PRINSHITA SHI

Prof. Santal Gaurav  
 WOD  
 ASSE. CNDET

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session 2021-22 (EVEN)  
 Date: 07/07/2022

**PUT EXAM NOTICE**  
 (B. Tech. SECOND SEMESTER)

All the Faculties of First Year B. Tech. Semester-2s are hereby informed that the PUT Exam is to be scheduled from 14/07/2022 to 19/07/2022 & Time Table has been displayed on the Notice Board. PUT Exam is in Offline Mode MCQ Form.

Note: 1. All faculties must have to prepare PUT question paper in MCQ form of their respective subject. Question paper carry 35 questions. Each questions carry 2 marks, paper having 70 marks & Question paper carry 35 marks each question carry 2 marks for paper having 35 marks.

2. Question paper is in MCQ form. Paper pattern will be send on your mail on 06/07/2022.

3. PUT Exam time is of 2 hours.

4. Submit question paper of their respective subject on or before 19/07/2022 and also send to yashrajchopkar@yahoo.co.in

5. ICC Question paper carry 25 questions. Each questions carry 2 marks.

Exam-In-charge: HOD, Associate Dean, Vice-Principal, Principal

Department of Applied Sciences & Humanities  
 (B. Tech. First Year)

Copy To:-  
 1. Circular among Staff.  
 2. Notice Board.  
 3. (S. Shrivastava)  
 4. (Mayur Shrivastava)  
 5. (Prinshita Shrivastava)





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 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022 (EVEN) Date: 14/07/2022

**PUT EXAM NOTICE**  
 (B. Tech. SECOND SEMESTER)

All the Student of First Year B. Tech. Semester-II are hereby informed that the PUT Exam is to be scheduled from 14/07/2022 to 19/07/2022 & Time Table has been displayed on the Notice Board. PUT Exam is in Offline Mode MCQ form. Students must come to college for PUT Exam.

**Instruction of PUT Examination Summer 2022**

- Question paper is in MCQ form which carry 45 questions. 2 Marks for each question for paper having 70 marks
- Question paper is in MCQ form which carry 45 questions. 1 Marks for each question for paper having 45 marks
- ICT: Question paper is in MCQ form which carry 25 questions. 2 Marks for each question for paper having 50 marks
- Exam time will be 2 hour. Students need to submit the paper in pre-allowed time.

Exam In-charge: HOD, Associate Dean & Academic, Vice-Principal, Section In-charge

Department of Applied Sciences & Humanities  
 Copy To: 1. Circular among Students  
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Section B: 1) Anshu Rautkar, 2) Lakshmi Deshpande, 3) Jyoti H. Deshpande, 4) Khushi Ganake

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022 (EVEN) Date: 14/07/2022

**PUT Exam Time Table**

No. No.	Date	Day	Time	Paper
01	14/07/2022	Thursday	10.30 am to 12.30 pm 2.00 pm to 4.00 pm	MATHEMATICS-II BASIC ELECTRICITY & ENGINEERING
02	15/07/2022	Friday	10.30 am to 12.30 pm 2.00 pm to 4.00 pm	APPLIED CHEMISTRY COMPUTATIONAL SKILLS
03	16/07/2022	Saturday	10.30 am to 12.30 pm 2.00 pm to 4.00 pm	ADVANCED ENGINEERING MATERIALS
04	19/07/2022	Tuesday	10.30 am to 11.00 pm	INDIAN CULTURE & CIVILIZATION

**Instruction of PUT Examination Summer 2022**

- Exam time will be 2 hours. Students need to submit the paper in pre-allowed time.
- If any student fail to attend the exam, its status is absent.
- Balance Fees should be cleared by every student before appearing to exam.

Exam In-charge: HOD, Associate Dean & Academic, Vice-Principal, Section In-charge

Copy To: Department of Applied Sciences & Humanities  
 1. Circular among Students  
 2. Circular among Teachers  
 3. Notice Board

Signatures: (Mishra, Bhatnagar, Deshpande, Ganake, Deshpande, Deshpande)

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur - 441501  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 PRE UNIVERSITY TEST (Session- 2021-2022) (EVEN)  
 DUTY CHART Date: 14/07/2022

All the faculties are informed to note down their PUT Examination duty schedule:

Sl. No.	Date	Day	Shift	Faculty Name	Prof. A.	Prof. B.	Prof. C.
1	14/07/2022	THURSDAY	10.30 AM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
2	14/07/2022	THURSDAY	2.00 PM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
3	15/07/2022	FRIDAY	10.30 AM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
4	15/07/2022	FRIDAY	2.00 PM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
5	16/07/2022	SATURDAY	10.30 AM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
6	16/07/2022	SATURDAY	2.00 PM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande

Note:- Reporting time for Morning Exam is 10.25am Sharply.  
 Reporting time for Morning Exam is 01.55pm Sharply.

Prof. Anshu Rautkar  
 Prof. Khushi Ganake

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 DUTY CHART Date: 14/07/2022

All the faculties are informed to note down their PUT Examination duty schedule:

Sl. No.	Date	Day	Shift	Faculty Name	Prof. A.	Prof. B.	Prof. C.
1	14/07/2022	THURSDAY	10.30 AM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
2	14/07/2022	THURSDAY	2.00 PM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
3	15/07/2022	FRIDAY	10.30 AM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
4	15/07/2022	FRIDAY	2.00 PM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
5	16/07/2022	SATURDAY	10.30 AM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande
6	16/07/2022	SATURDAY	2.00 PM	Prof. P. Rautkar	Prof. A. Deshpande	Prof. B. Deshpande	Prof. C. Deshpande

Note:- Reporting time for Morning Exam is 10.25am Sharply.  
 Reporting time for Morning Exam is 01.55pm Sharply.

Prof. Anshu Rautkar  
 Prof. Khushi Ganake



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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Sl. No.	Name of the Candidate	Reg. No.	Roll No.	Grade	Remarks
1	...	...	...	...	...
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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Sl. No.	Name of the Candidate	Reg. No.	Roll No.	Grade	Remarks
51	...	...	...	...	...
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Guru Nanak Institute of Engineering & Technology  
 Approved by AICTE, DTE & Affiliated to RTM Nagpur University, Nagpur  
 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur - 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Sl. No.	Name of the Candidate	Reg. No.	Roll No.	Grade	Remarks
101	...	...	...	...	...
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Guru Nanak Institute of Engineering & Technology  
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Sl. No.	Name of the Candidate	Reg. No.	Roll No.	Grade	Remarks
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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022 (EVEN)

**INTERNAL PRACTICAL EXAMINATION NOTICE**  
 SECOND SEMESTER

All the Students of First Year B. Tech. (Semester-II) are hereby informed that the Internal Practical Exam is to be scheduled from 11/07/2022 to 16/07/2022. The Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Summer 2022**  
 Exams will be conducted using offline mode only.  
 1. Written exam time will be of 1hr (Practical)  
 2. Students need to submit the paper as per allotted time.  
 3. After written exam students must prepare for Viva  
 4. If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.  
 5. Students must clear the balance fees, before attending the practical examination.  
 6. Students must carry the practical record.

Exam In-charge: HOD, GNJET

Copy To:-

- Principal, GNJET
- Vice-Principal, GNJET
- Associate Dean Academics
- Circulate among Students
- Notice Board

*Handwritten notes:*  
 Sec A: Dr. Divya Lande  
 Sec B: Prof. Subhash Chandra  
 1. Sec A: Dr. Divya Lande  
 2. Sec B: Prof. Subhash Chandra  
 3. Sec A: Dr. Divya Lande  
 4. Sec B: Prof. Subhash Chandra  
 5. Sec A: Dr. Divya Lande  
 6. Sec B: Prof. Subhash Chandra

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022 (EVEN)

**Internal Practical Examination Time Table Summer-2022**      Date: 04/07/2022

Sl. No.	Date	Day	Time	Section	Subject
01	11-07-2022	Monday	09:30 AM to 10:30 AM	A	APPLIED ELECTRICITY
				B	APPLIED CHEMISTRY
02	11-07-2022	Monday	01:30 PM to 03:00 PM	A	APPLIED ELECTRICITY
				B	ADVANCED ENGINEERING MATHS
03	13-07-2022	Wednesday	09:30 AM to 10:00 AM	A	Workshop
				B	Computerized Math
04	13-07-2022	Wednesday	01:30 PM to 04:00 PM	A	Computerized Math
				B	Workshop

**Instruction of RTMNI Internal Practical Examination Summer-2022**  
 1. Exams will be conducted using offline mode only.  
 2. Written exam time will be of 1hr (Practical)  
 3. Students need to submit the paper as per allotted time.  
 4. After the university roll number, if it is available & same as the subject title of previous exam.  
 5. If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.  
 6. Students must clear the balance fees, before attending the practical examination.  
 7. Students must carry the practical record.

Exam In-charge: HOD      Associate Dean Academics      Vice-Principal

Copy To:-

- Circulate among Staff
- Circulate among Students
- Notice Board

*Handwritten notes:*  
 Sec A: (Student)  
 1) Divya Lande  
 2) Prof. Subhash Chandra  
 3) Divya Lande  
 Sec B: Prof. Subhash Chandra

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022 (EVEN)

**INTERNAL PRACTICAL EXAMINATION NOTICE**  
 SECOND SEMESTER

All the Students of First Year B. Tech. (Semester-II) are hereby informed that the Internal Practical Exam is to be scheduled from 11/07/2022 to 12/07/2022. The Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Summer 2022**  
 Exams will be conducted using offline mode only.  
 1. Written exam time will be of 1hr (Practical)  
 2. Students need to submit the paper as per allotted time.  
 3. After written exam students must prepare for Viva  
 4. If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.  
 5. Students must clear the balance fees, before attending the practical examination.  
 6. Students must carry the practical record.

Exam In-charge: HOD, GNJET

Copy To:-

- Principal, GNJET
- Vice-Principal, GNJET
- Associate Dean Academics
- Circulate among Students
- Notice Board

*Handwritten notes:*  
 Sec A:  
 1) Dr. Divya Lande  
 2) Prof. Subhash Chandra  
 Sec B:  
 1) Dr. Divya Lande  
 2) Prof. Subhash Chandra

Guru Nanak Institute of Engineering & Technology  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session: 2021-2022 (EVEN)

**INTERNAL PRACTICAL EXAMINATION NUMBER: 2022**  
 ATTENDANCE SHEET

Date: 11-07-2022

Sl. No.	Name of Student	Attendance
1	Arjun	Present
2	Arjun	Absent
3	Arjun	Absent
4	Arjun	Absent
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**Guru Nanak Institute of Engineering & Technology**  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2021-22 (Evening)  
 INTERNAL PRACTICAL EXAMINATION NUMBER - 002  
 ATTENDANCE SHEET

Page No. \_\_\_\_\_

Roll No.	Name of Students	Signature
01	Arjun Manoj K. Patil	
02	Arjun Manoj K. Patil	
03	Arjun Manoj K. Patil	
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Present Students: 97  
 Absent Students: 03  
 Total Students: 100  
 Sign of Faculty: Prof. Manoj K. Patil

**Guru Nanak Institute of Engineering & Technology**  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2021-22 (Evening)  
 INTERNAL PRACTICAL EXAMINATION NUMBER - 002  
 ATTENDANCE SHEET

Page No. \_\_\_\_\_

Roll No.	Name of Students	Signature
1	Arjun Manoj K. Patil	
2	Arjun Manoj K. Patil	
3	Arjun Manoj K. Patil	
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6	Arjun Manoj K. Patil	
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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2021-2022

All the Faculties of First Year B. Tech. (Semester-II) are hereby informed that they have to collect suitably marked sheets of their respective subject for the Sessional I Exam and return it with marks on or before Thursday, 30 June 2022 to Prof. Yashraj S. Chiplak, Exam In-Charge.

Sl. No.	Subject Name	Faculty Name	Received Sign	Return Sign
1.	M - U	Prof. Manoj K. Patil Prof. Manoj K. Patil		
2.	ACM	Prof. Manoj K. Patil Prof. Manoj K. Patil		
3.	AC	Prof. Manoj K. Patil Prof. Manoj K. Patil		
4.	CS	Prof. Manoj K. Patil		
5.	BEE	Prof. Manoj K. Patil		
6.	EM	Prof. Manoj K. Patil		
7.	ICC	Prof. Manoj K. Patil		

Exam In Charge  
 HOD FY B. Tech.  
 Department of Applied Sciences & Humanities  
 GNIEET Nagpur

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Sessional I Examination (Session - 2021-2022)  
 DUTY CHART

Date: 16/06/2022

All the faculties are informed to note down their Sessional Examination duty schedule.

Roll No.	Day	Time	Faculty Name	Signature
1	MONDAY	10:00 AM - 12:00 PM	Prof. Manoj K. Patil	
2	TUESDAY	10:00 AM - 12:00 PM	Prof. Manoj K. Patil	
3	WEDNESDAY	10:00 AM - 12:00 PM	Prof. Manoj K. Patil	
4	THURSDAY	10:00 AM - 12:00 PM	Prof. Manoj K. Patil	
5	FRIDAY	10:00 AM - 12:00 PM	Prof. Manoj K. Patil	
6	SATURDAY	10:00 AM - 12:00 PM	Prof. Manoj K. Patil	
7	SUNDAY	10:00 AM - 12:00 PM	Prof. Manoj K. Patil	
8	MONDAY	12:00 PM - 2:00 PM	Prof. Manoj K. Patil	
9	TUESDAY	12:00 PM - 2:00 PM	Prof. Manoj K. Patil	
10	WEDNESDAY	12:00 PM - 2:00 PM	Prof. Manoj K. Patil	
11	THURSDAY	12:00 PM - 2:00 PM	Prof. Manoj K. Patil	
12	FRIDAY	12:00 PM - 2:00 PM	Prof. Manoj K. Patil	
13	SATURDAY	12:00 PM - 2:00 PM	Prof. Manoj K. Patil	
14	SUNDAY	12:00 PM - 2:00 PM	Prof. Manoj K. Patil	
15	MONDAY	2:00 PM - 4:00 PM	Prof. Manoj K. Patil	
16	TUESDAY	2:00 PM - 4:00 PM	Prof. Manoj K. Patil	
17	WEDNESDAY	2:00 PM - 4:00 PM	Prof. Manoj K. Patil	
18	THURSDAY	2:00 PM - 4:00 PM	Prof. Manoj K. Patil	
19	FRIDAY	2:00 PM - 4:00 PM	Prof. Manoj K. Patil	
20	SATURDAY	2:00 PM - 4:00 PM	Prof. Manoj K. Patil	
21	SUNDAY	2:00 PM - 4:00 PM	Prof. Manoj K. Patil	
22	MONDAY	4:00 PM - 6:00 PM	Prof. Manoj K. Patil	
23	TUESDAY	4:00 PM - 6:00 PM	Prof. Manoj K. Patil	
24	WEDNESDAY	4:00 PM - 6:00 PM	Prof. Manoj K. Patil	
25	THURSDAY	4:00 PM - 6:00 PM	Prof. Manoj K. Patil	
26	FRIDAY	4:00 PM - 6:00 PM	Prof. Manoj K. Patil	
27	SATURDAY	4:00 PM - 6:00 PM	Prof. Manoj K. Patil	
28	SUNDAY	4:00 PM - 6:00 PM	Prof. Manoj K. Patil	

Prof. Yashraj S. Chiplak  
 Exam In Charge





Guru Nanak Educational Society's  
**GURU NANAK INSTITUTE  
 OF ENGINEERING & TECHNOLOGY**

APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR  
 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



Guru Nanak Institute of Engineering & Technology  
 Department of Applied Sciences & Humanities (A-101)  
 Section: 1011-22  
 SEMESTER I  
 APPLIED SCIENCE I

Roll No.	Student Name	SI-I	SI-II	SI	US	RE	CI	TO
2019121								
21	Kamini Prasad Patil	75	75	75	75	75	75	75
22	Ramaji Prasad Patil	75	75	75	75	75	75	75
23	Ramaji Patil	75	75	75	75	75	75	75
24	Abhishek Rajendra Lakshmi	75	75	75	75	75	75	75
25	Megha Sagar Chandra	75	75	75	75	75	75	75
26	Pratik Prasad Wankar	75	75	75	75	75	75	75
27	Shikha P. Anand Harshwardhan	75	75	75	75	75	75	75
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100	Pratik Prasad Wankar	75	75	75	75	75	75	75

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 DEPARTMENT OF APPLIED SCIENCES & HUMANITIES  
 GNET/2021-22/12/19/ BESH-44/EM/BNH  
 First Sessional Examination  
 Date of Exam: 28/06/22  
 Year/Sem: I Year/ Sem  
 Subject Name: Indian Constitution and Culture  
 Maximum Marks: 50

INSTRUCTIONS TO CANDIDATE:  
 1) All questions carry marks as indicated.  
 2) Solve TWO questions as follows:  
 (i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4  
 3) Assume suitable data wherever necessary.  
 4) Illustrate your answer wherever necessary with the help of neat sketches.

1. a) Explain in detail concept of Culture and Civilization. 6  
 b) Write in detail Vedic civilization and Indus valley Civilization. 4  
 OR  
 2. a) Explain in detail Vedic System, Ashram System and Varan system and Write it's importance. 4  
 b) Explain in brief concept of Social Engineering. 4  
 3. a) Write a note of Industrial Psychology and Industrial sociology. 6  
 b) Explain in detail Recruitment and selection and why it is required. And also give in short training of workers. 4  
 OR  
 4. a) Write a brief explanation of Fatigue in industry. Factory and symptoms. 6  
 b) What are the sources for work in industry. Write a short note. 4

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 GNET/2021-22/12/19/ BESH-44/EM/BNH  
 First Sessional Examination  
 Date of Exam: 27/06/22  
 Year/Sem: I Year/ Sem  
 Subject Name: EM  
 Maximum Marks: 50

INSTRUCTIONS TO CANDIDATE:  
 1) All questions carry marks as indicated.  
 2) Solve TWO questions as follows:  
 (i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4  
 3) Assume suitable data wherever necessary.  
 4) Illustrate your answer wherever necessary with the help of neat sketches.

1. a) Forces are shown in fig. determine the resultant and position of where it acts X mm? 6  

 b) Explain the term Free Body diagram with some suitable example? 4  
 OR  
 2. a) A bar AB 8m long is supported by an inclined plane and vertical wall and loaded as shown in fig. determine angle  $\theta$  of the plane for the equilibrium. Assume smooth surface and weight of bar as negligible. 6  

 b) Explain Principle of Transmissibility? 4  
 3. a) For the beam shown in fig. determine reactions at supports. 6





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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES  
 GNET/2021-22/EVEN/08E2-4TCS/AP  
 First Sessional Examination

Year/Sem.: I-II  
 Time: - 1 Hr

Subject: Basic of Electrical Engineering  
 Date: 23/06/2022  
 Max. Marks: - 20

**INSTRUCTIONS TO CANDIDATES**

- All questions carry marks as indicated.
- Assume suitable data wherever necessary.
- Illustrate your answer wherever necessary with the help of neat sketches.

**Solve the following Questions (Attend any 5):-**

- What is C programming? Explain in detail? 4M
- What is Components of a Computer and where a program is stored and executed? 4M
- What is Algorithm? Explain in detail? 4M
- What is Flowchart? Explain it with Symbols? 4M
- What is Array and what is the types of array? Explain? 4M
- Demonstrate the Program of Bubble Sort? 4M
- What is Loop? Explain with example? 4M
- What is Error? Explain types of error (any 3)? 4M

\*\*\*\*\*BEST OF LUCK\*\*\*\*\*

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 DEPARTMENT OF APPLIED SCIENCES & HUMANITIES  
 GNET/2021-22/EVEN/08E2-4TCS/AP  
 First Sessional Examination

Year/Sem.: I-II  
 Time: - 01 Hours

Subject Name: Computational Skill  
 Date of Exam: - 23/06/2022  
 Maximum Marks: - 10

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry marks as indicated.
- Assume suitable data wherever necessary.
- Illustrate your answer wherever necessary with the help of neat sketches.

**Solve the following Questions (Attend any 3):-**

- What is C programming? Explain in detail? 4M
- What is Components of a Computer and where a program is stored and executed? 4M
- What is Algorithm? Explain in detail? 4M
- What is Flowchart? Explain it with Symbols? 4M
- What is Array and what is the types of array? Explain? 4M
- Demonstrate the Program of Bubble Sort? 4M
- What is Loop? Explain with example? 4M
- What is Error? Explain types of error (any 3)? 4M

\*\*\*\*\*BEST OF LUCK\*\*\*\*\*

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 DEPARTMENT OF APPLIED SCIENCES & HUMANITIES  
 GNET/2021-22/EVEN/08E2-4TCS/AP  
 First Sessional Examination

Year/Sem.: I-II  
 Time: - 01 Hours

Subject Name: Computational Skill  
 Date of Exam: - 23/06/2022  
 Maximum Marks: - 20

**INSTRUCTIONS TO CANDIDATE**

- All questions carry marks as indicated.
- Assume suitable data wherever necessary.
- Illustrate your answer wherever necessary with the help of neat sketches.

**Solve the following Questions (Attend any 5):-**

- What is C programming? Explain in detail? 4M
- What is Components of a Computer and where a program is stored and executed? 4M
- What is Algorithm? Explain in detail? 4M
- What is Flowchart? Explain it with Symbols? 4M
- What is Array and what is the types of array? Explain? 4M
- Demonstrate the Program of Bubble Sort? 4M
- What is Loop? Explain with example? 4M
- What is Error? Explain types of error (any 3)? 4M

\*\*\*\*\*BEST OF LUCK\*\*\*\*\*

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 DEPARTMENT OF APPLIED SCIENCES & HUMANITIES  
 GNET/2021-22/EVEN/08E2-4TCS/AP  
 First Sessional Examination

Year/Sem.: I-II  
 Time: - 01 Hours

Subject Name: Applied Chemistry  
 Date of Exam: - 23/06/2022  
 Maximum Marks: - 20

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry marks as indicated.
- Solve TWO questions as follows: (a) Q No. 1 OR Q No. 2
- Assume suitable data wherever necessary.
- Illustrate your answer wherever necessary with the help of neat sketches.

**Ques-1)**

- What is green chemistry? Explain its principle and explain any two of them? 4M
- Define and Explain: Carbon Sequestration and carbon credit? 4M

**OR**

**Ques-2)**

- What do you mean Ecosystem? Calculate the percentage of Green economy of following Ethanol,  $C_2H_5OH$ , can be produced by the fermentation of glucose,  $C_6H_{12}O_6$ .  
 $C_6H_{12}O_6 + H_2O \rightarrow 2C_2H_5OH + 2CO_2$   
 Calculate the atom economy for product Ethanol. 4M
- Write down the applications of:  
 i) DMC (dimethyl carbonate) 2M  
 ii) Supercritical Carbon Dioxide 2M

**OR**

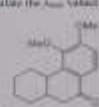
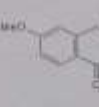
**Ques-3)**

- Draw & Explain Lanthanum Reaction 4M
- Calculate the molar absorptivity of a  $4 \times 10^{-4}$  M solution if the solution has an Absorbance of 0.40 and path length is 2 cm. 4M
- Define Nuclear Magnetic resonance? Write down the principle of Nuclear Magnetic Resonance. 4M

**OR**

**Ques-4)**

- Explain Infrared Diagram and its application? and also define fluorescence and phosphorescence. 4M
- Calculate the  $\lambda_{max}$  value of the following compounds: 4M

ii)  iii) 



GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
Date of Exam: 20/06/2022  
Subject Name: Mathematics-II  
Maximum Marks: 20

Year/Sem: 1st / II  
Time: 01 Hour

**INSTRUCTIONS TO CANDIDATE:**  
1. All questions carry marks as indicated.  
2. Solve TWO questions as follows:  
(i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4  
3. Assume suitable data wherever necessary.  
4. Illustrate your answer wherever necessary with the help of neat sketches.

**Ques 1)**  
a) Express  $\int_0^1 x^2(1-x)^2 dx$  in terms of Beta function and hence evaluate  $\int_0^1 x^2(1-x)^2 dx$  (04)

b) Show that  $\int_0^1 (y-y^2)^n (1-x)^n dy = \frac{1}{2} \int_0^1 t^{n+1/2} (1-t)^{n+1/2} dt$  (04)

**OR**

**Ques 2)**  
a) Trace the curve  $y^2 = x^2 + x^3$  and hence find the volume generated when the loop of the curve is rotated about the x axis.  
b) Evaluate area bounded by  $y = \frac{1}{x^2}$ ,  $x = 1$ ,  $x = 2$  and  $y = 0$ . (04)

**Ques 3)**  
a) Change the order of integration in  $I = \int_0^1 \int_{y^2}^1 e^{-xy} dx dy$  and hence evaluate the same (04)

b) Evaluate  $\int_0^1 \int_0^1 e^{-xy} dy dx$  over the triangle bounded by  $x = 0$ ,  $y = 0$  and  $x + y = 1$  (04)

**OR**

**Ques 4)**  
a) Evaluate by changing of order of integration  $\int_0^1 \int_{x^2}^1 e^{-xy} y^2 dx dy$  (04)

b) Evaluate  $\int_0^1 \int_0^1 e^{-xy} dy dx$  over the positive quadrant of the circle  $x^2 + y^2 = 1$  (04)

\*\*\*\*\*BEST OF LUCK\*\*\*\*\*

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
Date of Exam: 20/06/2022  
Subject Name: Mathematics-II  
Maximum Marks: 20

Year/Sem: 1st / II Sem  
Time: 01 Hour

**INSTRUCTIONS TO CANDIDATE:**  
1. All questions carry marks as indicated.  
2. Solve TWO questions as follows:  
(i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4  
3. Assume suitable data wherever necessary.  
4. Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	Evaluate $\int_0^1 \int_0^1 \sqrt{x} e^{-xy} dx$	4
	b)	Evaluate $\int_0^1 \int_0^1 e^{-xy} e^{xy} dx dy$	4
<b>OR</b>			
2.	a)	Evaluate $\int_0^1 \int_{y^2}^1 \frac{dx}{x+y}$	4
	b)	Evaluate $\int_0^1 \int_0^1 \frac{e^{-xy}}{y^2} 2x^2 y^2 dx dy$	4
3.	a)	Evaluate $\int_0^1 \int_0^1 e^{-xy} e^{xy} dx dy$	4
	b)	Evaluate $\int_0^1 e^{-ax} x^{n-1} \cos bx dx$	4
<b>OR</b>			
4.	a)	Evaluate $\int_0^1 \int_0^1 \frac{e^{-xy} (x^2 + y^2)}{x^2 + y^2} dx dy$	4
	b)	Evaluate $\int_0^1 x^2(1-\sqrt{x}) dx$	4

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
Department of Applied Sciences & Humanities (B.Tech. First Year)  
SESSIONAL EXAMINATION (Session-2021-2022)

**DUTY CHART**

Date: 14/06/2022

Room No.	Day	Time	Prof. A	Prof. B	Prof. C
Q19	MONDAY	11:30 AM	Prof. A. Bhargava	Prof. B. Marathe	Prof. C. Chakraborty
A16	TUESDAY	10:00 AM	Prof. A. Bhargava	Prof. B. Marathe	Prof. C. Chakraborty

Note: Reporting time: 10:55am. Sharply.

Prof. Anoop Chaturvedi  
Prof. Yashraj Chaturvedi

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
Department of Applied Sciences & Humanities (B.Tech. First Year)  
SESSIONAL EXAMINATION (Session-2021-2022)

Sl. No.	Students Name	Roll No.	Maths	Physics	Chemistry	English	Total	Grade
1	ADARSH KUMAR	2106011	28	22	22	22	94	B
2	ADARSH KUMAR	2106012	28	22	22	22	94	B
3	ADARSH KUMAR	2106013	28	22	22	22	94	B
4	ADARSH KUMAR	2106014	28	22	22	22	94	B
5	ADARSH KUMAR	2106015	28	22	22	22	94	B
6	ADARSH KUMAR	2106016	28	22	22	22	94	B
7	ADARSH KUMAR	2106017	28	22	22	22	94	B
8	ADARSH KUMAR	2106018	28	22	22	22	94	B
9	ADARSH KUMAR	2106019	28	22	22	22	94	B
10	ADARSH KUMAR	2106020	28	22	22	22	94	B
11	ADARSH KUMAR	2106021	28	22	22	22	94	B
12	ADARSH KUMAR	2106022	28	22	22	22	94	B
13	ADARSH KUMAR	2106023	28	22	22	22	94	B
14	ADARSH KUMAR	2106024	28	22	22	22	94	B
15	ADARSH KUMAR	2106025	28	22	22	22	94	B
16	ADARSH KUMAR	2106026	28	22	22	22	94	B
17	ADARSH KUMAR	2106027	28	22	22	22	94	B
18	ADARSH KUMAR	2106028	28	22	22	22	94	B
19	ADARSH KUMAR	2106029	28	22	22	22	94	B
20	ADARSH KUMAR	2106030	28	22	22	22	94	B
21	ADARSH KUMAR	2106031	28	22	22	22	94	B
22	ADARSH KUMAR	2106032	28	22	22	22	94	B
23	ADARSH KUMAR	2106033	28	22	22	22	94	B
24	ADARSH KUMAR	2106034	28	22	22	22	94	B
25	ADARSH KUMAR	2106035	28	22	22	22	94	B
26	ADARSH KUMAR	2106036	28	22	22	22	94	B
27	ADARSH KUMAR	2106037	28	22	22	22	94	B
28	ADARSH KUMAR	2106038	28	22	22	22	94	B
29	ADARSH KUMAR	2106039	28	22	22	22	94	B
30	ADARSH KUMAR	2106040	28	22	22	22	94	B
31	ADARSH KUMAR	2106041	28	22	22	22	94	B
32	ADARSH KUMAR	2106042	28	22	22	22	94	B
33	ADARSH KUMAR	2106043	28	22	22	22	94	B
34	ADARSH KUMAR	2106044	28	22	22	22	94	B
35	ADARSH KUMAR	2106045	28	22	22	22	94	B
36	ADARSH KUMAR	2106046	28	22	22	22	94	B
37	ADARSH KUMAR	2106047	28	22	22	22	94	B
38	ADARSH KUMAR	2106048	28	22	22	22	94	B
39	ADARSH KUMAR	2106049	28	22	22	22	94	B
40	ADARSH KUMAR	2106050	28	22	22	22	94	B
41	ADARSH KUMAR	2106051	28	22	22	22	94	B
42	ADARSH KUMAR	2106052	28	22	22	22	94	B
43	ADARSH KUMAR	2106053	28	22	22	22	94	B
44	ADARSH KUMAR	2106054	28	22	22	22	94	B
45	ADARSH KUMAR	2106055	28	22	22	22	94	B
46	ADARSH KUMAR	2106056	28	22	22	22	94	B
47	ADARSH KUMAR	2106057	28	22	22	22	94	B
48	ADARSH KUMAR	2106058	28	22	22	22	94	B
49	ADARSH KUMAR	2106059	28	22	22	22	94	B
50	ADARSH KUMAR	2106060	28	22	22	22	94	B
51	ADARSH KUMAR	2106061	28	22	22	22	94	B
52	ADARSH KUMAR	2106062	28	22	22	22	94	B
53	ADARSH KUMAR	2106063	28	22	22	22	94	B
54	ADARSH KUMAR	2106064	28	22	22	22	94	B
55	ADARSH KUMAR	2106065	28	22	22	22	94	B
56	ADARSH KUMAR	2106066	28	22	22	22	94	B
57	ADARSH KUMAR	2106067	28	22	22	22	94	B
58	ADARSH KUMAR	2106068	28	22	22	22	94	B
59	ADARSH KUMAR	2106069	28	22	22	22	94	B
60	ADARSH KUMAR	2106070	28	22	22	22	94	B
61	ADARSH KUMAR	2106071	28	22	22	22	94	B
62	ADARSH KUMAR	2106072	28	22	22	22	94	B
63	ADARSH KUMAR	2106073	28	22	22	22	94	B
64	ADARSH KUMAR	2106074	28	22	22	22	94	B
65	ADARSH KUMAR	2106075	28	22	22	22	94	B
66	ADARSH KUMAR	2106076	28	22	22	22	94	B
67	ADARSH KUMAR	2106077	28	22	22	22	94	B
68	ADARSH KUMAR	2106078	28	22	22	22	94	B
69	ADARSH KUMAR	2106079	28	22	22	22	94	B
70	ADARSH KUMAR	2106080	28	22	22	22	94	B
71	ADARSH KUMAR	2106081	28	22	22	22	94	B
72	ADARSH KUMAR	2106082	28	22	22	22	94	B
73	ADARSH KUMAR	2106083	28	22	22	22	94	B
74	ADARSH KUMAR	2106084	28	22	22	22	94	B
75	ADARSH KUMAR	2106085	28	22	22	22	94	B
76	ADARSH KUMAR	2106086	28	22	22	22	94	B
77	ADARSH KUMAR	2106087	28	22	22	22	94	B
78	ADARSH KUMAR	2106088	28	22	22	22	94	B
79	ADARSH KUMAR	2106089	28	22	22	22	94	B
80	ADARSH KUMAR	2106090	28	22	22	22	94	B
81	ADARSH KUMAR	2106091	28	22	22	22	94	B
82	ADARSH KUMAR	2106092	28	22	22	22	94	B
83	ADARSH KUMAR	2106093	28	22	22	22	94	B
84	ADARSH KUMAR	2106094	28	22	22	22	94	B
85	ADARSH KUMAR	2106095	28	22	22	22	94	B
86	ADARSH KUMAR	2106096	28	22	22	22	94	B
87	ADARSH KUMAR	2106097	28	22	22	22	94	B
88	ADARSH KUMAR	2106098	28	22	22	22	94	B
89	ADARSH KUMAR	2106099	28	22	22	22	94	B
90	ADARSH KUMAR	2106100	28	22	22	22	94	B
91	ADARSH KUMAR	2106101	28	22	22	22	94	B
92	ADARSH KUMAR	2106102	28	22	22	22	94	B
93	ADARSH KUMAR	2106103	28	22	22	22	94	B
94	ADARSH KUMAR	2106104	28	22	22	22	94	B
95	ADARSH KUMAR	2106105	28	22	22	22	94	B
96	ADARSH KUMAR	2106106	28	22	22	22	94	B
97	ADARSH KUMAR	2106107	28	22	22	22	94	B
98	ADARSH KUMAR	2106108	28	22	22	22	94	B
99	ADARSH KUMAR	2106109	28	22	22	22	94	B
100	ADARSH KUMAR	2106110	28	22	22	22	94	B



Guru Nanak Institute of Engineering & Technology  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2021-22  
 M.E. Exam

Roll No.	Student Name	CGPA	AGPA	SGPA	CGPA	AGPA	SGPA
01	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
02	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
03	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
04	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
05	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
06	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
07	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
08	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
09	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
10	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
11	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
12	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
13	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
14	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
15	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
16	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
17	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
18	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
19	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
20	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
21	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
22	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
23	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
24	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
25	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
26	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
27	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
28	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
29	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
30	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
31	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
32	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
33	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
34	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
35	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
36	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
37	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
38	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
39	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
40	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
41	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
42	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
43	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
44	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
45	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
46	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
47	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
48	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
49	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
50	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20

Guru Nanak Institute of Engineering & Technology  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2021-22  
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02	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
03	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
04	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
05	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
06	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
07	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
08	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
09	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
10	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
11	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
12	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
13	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
14	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
15	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
16	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
17	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
18	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
19	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
20	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
21	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
22	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
23	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
24	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
25	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
26	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
27	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
28	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
29	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
30	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
31	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
32	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
33	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
34	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
35	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
36	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
37	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
38	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
39	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
40	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
41	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
42	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
43	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
44	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
45	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
46	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
47	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
48	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
49	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20
50	Arvind Kumar Singh	2.20	2.20	2.20	2.20	2.20	2.20

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur - 441501  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 SESSIONAL EXAMINATION (Session- 2021-2022)  
 DUTY CHART

All the faculties are informed to note down their Sessional Examination duty schedule.

Room No.	Date	Faculty	Time	Faculty	Time	Faculty	Time
3030242	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030243	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030244	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030245	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030246	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030247	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030248	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030249	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030250	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030251	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030252	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030253	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030254	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030255	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030256	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030257	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030258	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030259	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM
3030260	23/06/2022	Prof. P. Khairwal	10:30 AM	Prof. P. Khairwal	11:30 AM	Prof. P. Khairwal	12:30 PM

Notes:- Reporting time 10:55am Sharply.

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 22.06.2022

**SESSIONAL EXAM NOTICE  
 (B. Tech. SECOND SEMESTER)**

All the Student of First Year B. Tech. (Semester-II) are hereby informed that the Sessional-I is to be scheduled from 20/06/2022 to 26/06/2022 & Time Table has been displayed on the Notice Board.

**Instruction of Sessional Examination Summer 2022**

- Syllabus for exam will be 2 units of respective subject.
- Theory Exam is in descriptive form.
- Theory Exam time will be 1 hour. Students need to submit the paper on pre-affiliated time.
- If any student fail to attend the exam, its mention as absent.

Exam In charge: *(Signature)*

Copy To:-

- Principal Sir.
- Vice Principal Sir.
- Associate Dean Academics
- Circulation among Students.
- Notice Board.

Student sec B. Tech. *(Signature)*  
 Student sec B. Tech. *(Signature)*

HEAD IV B. Tech.  
 Department of Applied  
 Science & Humanities  
 GNIEIT Nagpur



Guru Nanak Educational Society's  
**GURU NANAK INSTITUTE  
 OF ENGINEERING & TECHNOLOGY**

APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR  
 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 13/06/2022

**Sessional - I Time Table**

Sl. No.	Date	Day	Time	Paper
01	20-06-2022	Monday	11.00 am to 12.00 noon	MATHEMATICS-II
02	21-06-2022	Tuesday	11.00 am to 12.00 noon	ADVANCED ENGINEERING MATERIALS
03	22-06-2022	Wednesday	11.00 am to 12.00 noon	APPLIED CHEMISTRY
04	23-06-2022	Thursday	11.00 am to 12.00 noon	COMPUTATIONAL SKILLS
05	24-06-2022	Friday	11.00 am to 12.00 noon	BASIC OF ELECTRICAL ENGINEERING
06	27-06-2022	Monday	11.00 am to 12.00 noon	ENGINEERING MECHANICS
07	28-06-2022	Tuesday	11.00 am to 12.00 noon	INDIAN CULTURE & CONSTITUTION

**Instruction of Sessional Examination Summer 2022**

- Vollabus for exam will be 2 units of respective subject
- Theory Exam is in descriptive form.
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its session is absent.

Exam In charge: *[Signature]*  
 HOD P.Y. B.Tech. Department of Applied Sciences & Humanities GNJET Nagpur

**Copy To:-**

- Principal Sir
- Vice Principal Sir
- Associate Dean Academics
- Circulation among Staff
- Circulation among Students
- Notice Board.

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 13/06/2022

**SESSIONAL EXAM NOTICE  
 (B. Tech. SECOND SEMESTER)**

All the Faculties of First Year B. Tech. (Semester-II) are hereby informed that the Sessional-I Exam is to be scheduled from 20/06/2022 to 28/06/2022 & Time Table has been displayed on the Notice Board.

**Note:**

- All Faculty must have to submit Question Bank of 20 Questions of their respective subject on or before 16/06/2022 for sessional-I.
- All faculty must have to complete 2 Units of their respective subject. Sessional-I is on two units.
- Question paper is in **Descriptive form**. Paper pattern will be send on your mail up to 14/06/2022.
- Submit question paper of their respective subject on or before **Friday, 17 June 2022** and also send to [yashrajchopkar@yahoo.co.in](mailto:yashrajchopkar@yahoo.co.in)
- Subject teacher will perform invigilation duty for their subject paper scheduled as per time table.

Exam In charge: *[Signature]*  
 HOD P.Y. B.Tech. Department of Applied Sciences & Humanities GNJET Nagpur

**Copy To:-**

- Principal Sir
- Vice Principal Sir
- Associate Dean Academics
- Circulation among Staff
- Notice Board.

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 13/06/2022

**SESSIONAL EXAM NOTICE  
 (B. Tech. SECOND SEMESTER)**

All the Faculties of First Year B. Tech. (Semester-II) are hereby informed that the Sessional-I Exam is to be scheduled from 20/06/2022 to 28/06/2022 & Time Table has been displayed on the Notice Board.

**Note:**

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 13/06/2022

**Sessional - I Time Table**

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06	27-06-2022	Monday	11.00 am to 12.00 noon	ENGINEERING MECHANICS
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**Instruction of Sessional Examination Summer 2022**

- Vollabus for exam will be 2 units of respective subject
- Theory Exam is in descriptive form.
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its session is absent.

Exam In charge: *[Signature]*  
 HOD P.Y. B.Tech. Department of Applied Sciences & Humanities GNJET Nagpur

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- Vice Principal Sir
- Associate Dean Academics
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APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR  
 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Indraprastha, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech, First Year)  
 Session: 2021-2022  
 Date: 05.01.2022

**EXTERNAL PRACTICAL EXAMINATION WINTER 2021**  
**NOTICE**  
 (B. Tech, FIRST SEMESTER)

All the Teachers of First Year B. Tech, (Semester-I) are hereby informed that the External Practical Exam is to be scheduled from 11/04/2022 to 13/04/2022 & Time Table has been displayed on the Notice Board.

**Instruction of RTMNU Practical Examination Winter 2021**

- Exam will be conducted using offline mode only.
- Written exam time will be of 1 hr (Practical).
- Students need to submit the paper as per allotted time. Descriptive type questions will be asked in the examination (Practical).
- Write the university roll number, if it is available & Name at the upper side of answer sheet.
- After written exam, Practical Exam must be taken.
- If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- Students must clear the balance fees, before attending the practical examination.
- Students must carry the practical record.

*(Signature)*  
Exam In charge

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Department of Applied Sciences & Humanities  
GNIEET Nagpur

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Indraprastha, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech, First Year)  
 Session: 2021-2022  
 Date: 07.04.2022

**EXTERNAL PRACTICAL EXAMINATION WINTER 2021**  
**NOTICE**  
 (B. Tech, FIRST SEMESTER)

All the Student of First Year B. Tech, (Semester-I) are hereby informed that the External Practical Exam is to be scheduled from 11/04/2022 to 13/04/2022 & Time Table has been displayed on the Notice Board.

**Instruction of External Practical Examination Winter 2021**

- Exam will be conducted using offline mode only.
- Written exam time will be of 1hr (Practical).
- Students need to submit the paper as per allotted time. Descriptive type questions will be asked in the examination (Practical).
- After written exam students must prepare for Viva.
- Write the university roll number, if it is available & Name at the upper side of answer sheet.
- If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- Students must clear the balance fees, before attending the practical examination.
- Students must carry the practical record.

*(Signature)*  
Exam In charge

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Department of Applied Sciences & Humanities  
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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Indraprastha, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech, First Year)  
 Session: 2021-2022  
 Date: 05/04/2022

**External Practical Examination Time Table Winter 2021**

Sl. No.	Date	Day	Time	Section	Paper
01	11-04-2022	Monday	10:00 am to 1:00 pm	A	APPLIED PHYSICS
			2:00 pm to 5:00 pm	B	
02	12-04-2022	Tuesday	10:00 am to 1:00 pm	A	ENERGY AND ENVIRONMENT
			2:00 pm to 5:00 pm	B	
03	13-04-2022	Wednesday	10:00 am to 1:00 pm	A	COMMUNICATION SKILLS
				B	ENGINEERING GRAPHIC
			2:00 pm to 5:00 pm	A	ENGINEERING GRAPHIC
				B	COMMUNICATION SKILLS

**Instruction of RTMNU Practical Examination Winter 2021**

- Exam will be conducted using offline mode only.
- Written exam time will be of 1hr (Practical).
- Students need to submit the paper as per allotted time. Descriptive type questions will be asked in the examination (Practical).
- Write the university roll number, if it is available & Name at the upper side of answer sheet.
- If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- Students must clear the balance fees, before attending the practical examination.
- Students must carry the practical record.

*(Signature)*  
Exam In charge

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RASHTRABHARATI TUKADOJI MAHARAJ NAGPUR UNIVERSITY  
 DALAL WINTER 2021  
 (4495)

**FIRST SEMESTER B.TECH. (P.E. JAIL BRANCHES) (COURSE BASED CREDIT SYSTEM) EXAMINATION WINTER 2021**  
 \* PROGRAMME ONLINE \*  
 Time : One Hour Duration between 11.30 A.M. To 02.30 P.M. (Web Base)

Day	Date	Subject
Friday	01-04-2022	Mathematics -I
Monday	04-04-2022	Applied Physics
Tuesday	05-04-2022	Energy and Environment
Wednesday	06-04-2022	Communication Skills
Thursday	07-04-2022	Engineering Graphics

**GENERAL INSTRUCTIONS**

- The students have to appear for online examination using web Base Applications at <https://raonw2021>
- Students have to solve 40 Questions within one hour as per given scheduled time
- All Questions are compulsory for all subjects

Nagpur  
 Date: 14-02-2022

Sd/-  
 Director  
 Board of Examination & Evaluation  
 Rashtrabharati Tukadoji Maharaj University, Nagpur



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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 12-01-2022

**INTERNAL PRACTICAL EXAMINATION NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Faculty of First Year B. Tech. (Semester-I) are hereby informed that the Internal Practical Exam is to be scheduled from 21/03/2022 to 22/03/2022 & Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Winter 2021**

- Exam will be conducted using offline mode only.
- Written exam time will be of 1hr. (Practical)
- Students need to submit the paper as per allotted time. Descriptive type questions will be asked in the examinations (Practical)
- After written exam, Practical viva must be taken.

Exam In charge:

Department of Applied Science & Humanities  
 GNIEET Nagpur

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 12-01-2022

**INTERNAL PRACTICAL EXAMINATION NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Student of First Year B. Tech. (Semester-I) are hereby informed that the Internal Practical Exam is to be scheduled from 21/03/2022 to 22/03/2022 & Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Winter 2021**

- Exam will be conducted using offline mode only.
- Written exam time will be of 1hr. (Practical)
- Students need to submit the paper as per allotted time. Descriptive type questions will be asked in the examinations (Practical)
- After written exam students must prepare for Viva
- If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- Students must clear the balance fees, before attending the practical examination.
- Students must carry the practical record.

Exam In charge:

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 14/01/2022

**FIRST SEMESTER INTERNAL PRACTICAL EXAMINATION TIME TABLE  
 (WINTER 2021 (VIVA - PRACTICAL))**

No. No.	Date	Day	Time	Section	Practical
01	21-03-2022	Monday	02:00 PM - 03:30 PM	A	Energy And Environment
			03:30 PM - 05:00 PM		Engineering Graphics
			02:00 PM - 03:30 PM	B	Engineering Graphics
			03:30 PM - 05:00 PM		Energy And Environment
02	22-03-2022	Tuesday	02:00 PM - 03:30 PM	A	Communication Skills
			03:30 PM - 05:00 PM		Applied Physics
			02:00 PM - 03:30 PM	B	Applied Physics
			03:30 PM - 05:00 PM		Communication Skills

Exam In charge:

Department of Applied Science & Humanities  
 GNIEET Nagpur

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 14/01/2022

**PUT EXAM NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Faculty of First Year B. Tech. (Semester-I) are hereby informed that the PUT Exam is to be scheduled from 25/03/2022 to 25/03/2022 & Time Table has been displayed on the Notice Board. PUT Exam is in Online Mode MCQ form.

**Note:**

- All faculties must have to prepare PUT question paper in Google form of their respective subject. Question paper carry 35 question. Each question carry 1 marks.
- Faculties of respective subject upload PUT question paper in student whatsapp group as per time table.
- PUT Exam time is 1 hour.
- Faculty must take 1 hour revision class before their exam paper.

Exam In charge:

Department of Applied Science & Humanities  
 GNIEET Nagpur

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 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 16/03/2022

**PUT Exam Time Table**

Sr. No.	Date	Day	Time	Paper
01	23-03-2022	Wednesday	11:00 am to 12:00 pm	MATHEMATICS-I
			3:00 pm to 4:00 pm	APPLIED PHYSICS
02	24-03-2022	Thursday	11:00 am to 12:00 pm	ENERGY AND ENVIRONMENT
			3:00 pm to 4:00 pm	COMMUNICATION SKILLS
03	25-03-2022	Friday	11:00 am to 12:00 pm	ENGINEERING GRAPHICS
			3:00 pm to 4:00 pm	BASICS OF CIVIL & MECHANICAL ENGINEERING

**Instruction of PUT Examination Winter 2021**

- Question paper is in MCQ form which carry 35 question. 1 Marks for each question.
- Question paper is in google form which will send on whatsapp group as per time table.
- Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- 1 hour revision class before PUT exam paper.
- BCME paper is final Internal paper.

Exam In charge: *Yashraj*

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 16/03/2022

**PUT EXAM NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Student of First Year B. Tech. (Semester-I) are hereby informed that the PUT Exam is to be scheduled from 23/03/2022 to 25/03/2022 & Time Table has been displayed on the Notice Board. PUT Exam is in Online Mode MCQ form. Students must come to college for PUT Exam.

**Instruction of PUT Examination Winter 2021**

- Question paper is in MCQ form which carry 35 question. 1 Marks for each question.
- Question paper is in Google form which will send on whatsapp group as per time table.
- Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- 1 hour revision class before PUT exam paper.

Exam In charge: *Yashraj*

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022  
 Date: 16/03/2022

**PUT Exam Time Table**

Sr. No.	Date	Day	Time	Paper
01	23-03-2022	Wednesday	11:00 am to 12:00 pm	MATHEMATICS-I
			3:00 pm to 4:00 pm	APPLIED PHYSICS
02	24-03-2022	Thursday	11:00 am to 12:00 pm	ENERGY AND ENVIRONMENT
			3:00 pm to 4:00 pm	COMMUNICATION SKILLS
03	25-03-2022	Friday	11:00 am to 12:00 pm	ENGINEERING GRAPHICS
			3:00 pm to 4:00 pm	BASICS OF CIVIL & MECHANICAL ENGINEERING

**Instruction of PUT Examination Winter 2021**

- Question paper is in MCQ form which carry 35 question. 1 Marks for each question.
- Question paper is in google form which will send on whatsapp group as per time table.
- Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- 1 hour revision class before PUT exam paper.
- BCME paper is final Internal paper.

Exam In charge: *Yashraj*

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Guru Nanak Institute of Engineering & Technology  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 Department of Applied Sciences & Humanities (B. E. First Year)  
 Session 2021-22

**MARK SHEET**

Roll No.	Students Name	SI-I (15 SE)	AP (05 SE)	Eng (10 SE)	CS (10 SE)	EG (10 SE)	BCME (10 SE)
		23.03.22	23.03.22	24.03.22	24.03.22	25.03.22	25.03.22
1	Aarushi Bhanushankar Yashraj	32	16	35	32	34	30
2	Ashvi Dhanrajwar Kalendra	28	17	31	35	33	30
3	Bhagwati Maheshwar Bhanu	28	13	33	32	34	30
4	Bhagwati Madhuri Yashraj	22	13	34	30	33	30
5	Dhanraj Bhanu Gaurav	AB	AB	AB	AB	AB	AB
6	Dhruv Gaurav Wagh	AB	22	33	33	35	30
7	Dhruv Gaurav Kothare	29	28	35	33	32	30
8	Dhruv Himanshu Bhanu	11	9	34	33	33	30
9	Dhruv Himanshu Bhanu	33	22	35	34	33	30
10	Dhruv Dhiraj Thakare	AB	AB	33	30	35	30
11	Dhruv Dhanrajwar Bhanu	29	18	33	33	33	30
12	Dhruv Maheshwar Yashraj	33	13	33	34	33	30
13	Dhruv Suman Maheshwar	30	26	35	34	33	30
14	Laxmi Anurag Maheshwar	AB	12	32	33	33	30
15	Laxmi Pratik Bhanu	29	22	29	31	33	30
16	Maheshwar Yashraj Bhanu	27	22	29	33	34	30
17	Mohini Pratik Bhanu	AB	10	33	34	33	30
18	Pratik Bhanu Bhanu	29	22	28	28	31	30
19	Pratik Navinraj Dhanrajwar	27	23	35	34	35	30
20	Pratik Raju Ushraj	AB	17	29	35	33	30
21	Pratik Maheshwar Bhanu	24	21	29	33	35	30
22	Pratik Hari Bhanu	AB	AB	AB	AB	AB	AB
23	Pratik Rajesh Ushraj	10	25	19	26	22	20
24	Pratik Suman Chavan	AB	AB	33	32	32	30
25	Rajeshwar Bhanu	20	13	35	30	35	30
26	Rajeshwar Vajay Parmanandhar	AB	AB	AB	AB	30	30
27	Sanjay Kishor Waghmare	AB	25	35	34	35	30
28	Shubh Nagraj Bhanu Kalam	22	11	35	30	34	30
29	Shubh Rameshwar Kothare	AB	19	24	29	31	30
30	Shubh Anil Bhanu	AB	AB	39	AB	32	AB
31	Shubh Suman Waghmare	32	22	35	35	35	30
32	Amishwar Bhanu	AB	29	35	35	35	30
33	Amishwar Waghmare	28	25	33	33	34	30
34	Anurag Rajeshwar	AB	AB	AB	AB	AB	AB



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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022

**SESSIONAL EXAMINATION NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Faculty of First Year B. Tech. (Semester-I) are hereby informed that the **Sessional-II** is to be scheduled from 09/03/2022 to 16/03/2022 & Time Table has been displayed on the Notice Board.

**Note:** 1. All Faculty must have to submit Question Bank of 40 Questions & Answers for each respective subject on MCQ Form on or before 09/03/2022.  
 2. All Faculty must have to complete 4 Units of their respective subject. Test will be on 3<sup>rd</sup> and 4<sup>th</sup> Unit.  
 3. Question Paper covered syllabus upto Tuesday 08-03-2022.  
 4. Question paper is in **MCQ form** which carry 20 questions. 1 Marks for each question.  
 5. Provide **TWO** sets of MCQ Question paper.  
 6. Submit question paper of their respective subject on or before **Tuesday, 08 March, 2022** and also send to yashrajchopkar@yahoo.co.in

*Yashraj Chopkar*  
Exam in charge

*Yashraj Chopkar*  
HOD

**Copy To:-**

- Principal Sir for Information (GNIET).
- Vice Principal Sir for Information (GNIET).
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*Note: Question paper format is sent on your email.*

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022

**SESSIONAL EXAMINATION NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Student of First Year B. Tech. (Semester-I) are hereby informed that the **Sessional-II** is to be scheduled from 09/03/2022 to 16/03/2022 & Time Table has been displayed on the Notice Board.

**Instruction of Sessional Examination Winter 2021**

- Syllabus for exam will be 3<sup>rd</sup> & 4<sup>th</sup> units of respective subject. (Follow the instructions given by subject teacher)
- Question paper is in **MCQ form** which carry 20 questions. 1 Marks for each question.
- Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

*Yashraj Chopkar*  
Exam in charge

*Yashraj Chopkar*  
HOD

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2021-2022

**Sessional - II Time Table**

Sl. No.	Date	Day	Time	Paper
01	09-03-2022	Wednesday	2.30 pm to 3.00 pm	MATHEMATICS - I
02	10-03-2022	Thursday	2.00 pm to 3.00 pm	ENERGY AND ENVIRONMENT
03	11-03-2022	Friday	2.00 pm to 3.00 pm	COMMUNICATION SKILLS - I
04	14-03-2022	Monday	2.00 pm to 3.00 pm	ENGINEERING GRAPHICS
05	15-03-2022	Tuesday	2.00 pm to 3.00 pm	BASICS OF CIVIL & MECHANICAL ENGINEERING
06	16-03-2022	Wednesday	2.00 pm to 3.00 pm	APPLIED PHYSICS

**Instruction of Sessional Examination Winter 2021**

- Syllabus for exam will be 3<sup>rd</sup> & 4<sup>th</sup> units of respective subject. (Follow the instructions given by subject teacher)
- Question paper is in **MCQ form** which carry 20 questions. 1 Marks for each question.
- Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

*Yashraj Chopkar*  
Exam in charge

*Yashraj Chopkar*  
HOD

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 SESSIONAL EXAMINATION (Session: 2021-2022)  
**DUTY CHART**

All the faculties are informed to note down their Sessional Examination duty schedule.

Room No.	09-03-22 WEDNESDAY	10-03-22 THURSDAY	11-03-22 FRIDAY	14-03-22 MONDAY	15-03-22 TUESDAY	16-03-22 WEDNESDAY
A210	Prof. S. Charjan	Prof. S. Charjan	Prof. S. Charjan	Prof. S. Charjan	Prof. S. Charjan	Prof. S. Charjan
A300	Prof. S. Ilbargale	Prof. S. Senkumar	Prof. S. Senkumar	Prof. S. Senkumar	Prof. S. Senkumar	Prof. S. Senkumar
A210	Prof. K. Wagh	Prof. B. Bhubhan	Prof. B. Bhubhan	Prof. B. Bhubhan	Prof. B. Bhubhan	Prof. B. Bhubhan
A105	Prof. S. Santoshwar	Prof. S. Santoshwar	Prof. S. Santoshwar	Prof. S. Santoshwar	Prof. S. Santoshwar	Prof. S. Santoshwar

**Note:-** Reporting time 1.55 pm. Exam Time 2.00 pm.





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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 GNIEY0411-2622000/0411-ET (Energy and Environment) SEM  
 First Sessional Test (2021-22)

Subject Name: Energy and Environment  
 Date of Exam: 22/02/2022  
 Time: 10:00am-11am (1 Hour)  
 Year/Sem: 1<sup>st</sup>/1<sup>st</sup> Sem.: A & B  
 Max. Marks: 20 M

**INSTRUCTIONS TO CANDIDATE:**  
 1) All questions carry marks as indicated.  
 2) Solve TWO questions as follows:  
 a) Q.1 OR Q.2 OR Q.3 (10 Q. No. 1 OR Q. No. 2)  
 3) Assume suitable data wherever necessary.  
 4) Illustrate your answer wherever necessary with the help of neat sketches.

Q.1. a) Give an account of the determination of calorific value of a gaseous fuel by Bery's gas calorimeter and draw a well labelled diagram of it. (3M)  
 b) Calculate the Gross and Net calorific value of coal having the following composition: C = 80%, H = 8%, S = 1%, N = 2% and ash = 6%. using Dulong's formula. Given the latent heat of steam = 587 cal/g. (3M)

OR

Q.2. a) During determination of calorific value of a coal sample by Bomb calorimeter following results were recorded:  
 i) Weight of fuel burnt = 1.80 g  
 ii) Water equivalent of calorimeter = 450 g  
 iii) weight of water taken in calorimeter = 2400 g  
 iv) Rise in temperature of water = 5.2°C  
 v) Acid correction = 20 cal  
 vi) Fuse wire correction = 4 cal  
 vii) Cooling correction = 0.24 °C  
 viii) Cotton Thread correction = 5 cal  
 ix) If the coal contains 6.3% Hydrogen, calculate the GCV and NCV of coal sample provided that the Latent heat of steam condensed is 587 cal/g. (3M)  
 b) What is the significance of ultimate analysis of a coal? (2M)

Q.3. a) Write Short Notes on - (i) Biodiesel (ii) Non-conventional sources of energy. (2M)  
 b) Discuss the various corrections applied during determination of calorific value of solid fuel by Bomb calorimeter. (4M)

OR

Q.4. a) What is cracking? Discuss with well labelled diagram of a fluid bed catalytic cracking. (2M)  
 b) Define fractional distillation. Draw well labelled diagram of fractionating tower and describe the process. (4M)

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 GNIEY0411-2622000/0411-ET (Applied Physics) SEM  
 First Sessional Test (2021-22)

Subject Name: Applied Physics  
 Date of Exam: 22/02/2022  
 Time: 10:00am-11am (1 Hour)  
 Year/Sem: 1<sup>st</sup>/1<sup>st</sup> Sem.: A & B  
 Maximum Marks: 20 M

**INSTRUCTIONS TO CANDIDATE:**  
 1) All questions carry marks as indicated.  
 2) Solve ANY One from Q1 or Q2 & Q3 or Q4  
 3) Assume suitable data wherever necessary.

Q.1. (a) Write Compton effect. (1M)  
 (b) Explain what will happen when X-ray photon collides with (1) Free electron and (2) Tightly bound electron. (3M)  
 (c) Write down the equations of energy and momentum conservation during collision of an X-ray photon with a free electron. (3M)  
 (d) X-ray of 0.5Å are scattered by free electron in a carbon block through 85°. Find the wavelength of the scattered photon & energy of recoil electron. (3M)

OR

Q.2. a) Show how the Bohr's quantization of angular momentum infers the concept of matter waves. (3M)  
 b) Discuss in detail an experiment that confirms the existence of de-Broglie matter waves. (4M)  
 c) What would be the de-Broglie wavelength associated with:  
 i) 2000 kg car having a constant speed of 22 m/s (3M)  
 ii) 80 kg scooter having a speed of 10 km/h (3M)

Q.3. (a) Explain & deduce Bragg's law for X-ray diffraction. (4M)  
 (b) What are Miller indices? Draw the crystal planes of Miller indices (111) & (201) in cubic unit cell. (3M)  
 (c) Aluminium has FCC structure. Its density is 2700 kg/m<sup>3</sup>. Calculate unit cell dimension and atomic diameter of Aluminium. (3M)

OR

Q.4. a) Define (i) Basis (ii) Unit cell. (2M)  
 b) Deduce a relation between interplanar distance and Miller indices of the plane of a cubic system. (4M)  
 c) Define Atomic Packing Fraction. Calculate APF and Void space for BCC and FCC unit cell. (4M)

**LIST OF CONSTANTS:**  
 • Velocity of light (c) = 3x10<sup>8</sup> m/sec.  
 • 1 electron volt = 1.6x10<sup>-19</sup> J  
 • Charge of electron (e) = 1.6x10<sup>-19</sup> C  
 • Mass of electron (m) = 9.1x10<sup>-31</sup> Kg  
 • Mass of proton (m<sub>p</sub>) = 1.67x10<sup>-27</sup> Kg  
 • Planck's constant (h) = 6.63x10<sup>-34</sup> Js.  
 • Avogadro's constant (N<sub>A</sub>) = 6.023x10<sup>23</sup>/K mole

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 GNIEY0411-2622000/0411-ET (Mathematics) SEM  
 First Sessional Test (2021-22)

Subject Name: Mathematics-I  
 Date of Exam: 21/02/2022  
 Time: 10:00am-11am (1 Hour)  
 Year/Sem: 1<sup>st</sup>/1<sup>st</sup> Sem.: A & B  
 Max. Marks: 20 M

**INSTRUCTIONS TO CANDIDATE:**  
 1) All questions carry marks as indicated.  
 2) Solve TWO questions as follows:  
 (i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4  
 3) Assume suitable data wherever necessary.  
 4) Illustrate your answer wherever necessary with the help of neat sketches.

1. a) Test the consistency and solve.  
 $5x + 3y + 7z = 4$   
 $3x + 26y + 2z = 9$   
 $7x + 2y + 10z = 5$  (4M)  
 b) Find the inverse of matrix by partitioning.  
 $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 5 \\ 3 & 5 & 6 \end{bmatrix}$  (4M)

OR

2. a) Solve the system of Equation by Adjust method.  
 $3x + y + z = 8$   
 $2x - 2y + 3z = 7$   
 $x - y + 2z = 5$  (4M)  
 b) Find the rank of matrix.  
 $\begin{bmatrix} 1 & -1 & -2 & -2 \\ 4 & 1 & 0 & 2 \\ 0 & 3 & 1 & 2 \\ 0 & 1 & 0 & 2 \end{bmatrix}$  (4M)

3. a) Solve  $(1 + e^{x/2})dx + (1 - \frac{x}{2})e^{x/2} dy = 0$  (6M)  
 b) Solve  $(1+x)\frac{dy}{dx} - \tan y = (1+x)^2 e^x \sec y$  (4M)

OR

4. a) Solve  $\frac{dy}{dx} + y \tan x = y^2 \sec x$  (6M)  
 b) Solve  $(1+x^2)\frac{dy}{dx} + y = e^{\tan^{-1}x}$  (4M)

Guru Nanak Institute of Engineering & Technology  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 Department of First Year Engineering  
 Session: 2021-2022  
 First Semester (UG) SEM  
 First Semester Examination  
 Branch: Civil and Mechanical Engineering

Time: 02 hour  
 Marks: 20

Note: 1. Solve Questions number 3 or Question No. 2 and 2. Solve Question number 3 or Question No. 4

Question 1. a) Define Civil Engineering and Explain Role of Civil Engineering in Infrastructural Development. (05)  
 b) What is Cement and Explain Different Grades of cement. (05)

OR

Question 2. a) Explain in Brief Principles of Planning Related to Building. (05)  
 b) Write short Notes on Bylaws Related to Building. (05)

Question 3. a) What do you mean by Eco-friendly Materials and Explain its Characteristics. (05)  
 b) Explain Different Types of Concrete and why RMC is called as Green Concrete. (05)

OR

Question 4. a) Define Surveying and Explain Principle of Surveying. (05)  
 b) What is Transportation Engineering and Explain Role of Transportation Engineering in Nation Development. (05)

Best of Luck



**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 GNET/2021-2022/ODD/ RES-1-ET / COMMUNICATION SKILLS/AV  
**First Sessional Test (2021-22)**  
 Date of Exam: 24-02-2022  
 Subject Name: COMMUNICATION SKILLS Year/Sem: 1<sup>st</sup> /1<sup>st</sup> Sem.- A & B  
 Time: (0.00hrm-1.00hrm) (1 Hour) Mas. Marks: - 30 M

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry marks as indicated.
- Solve TWO questions as follows:  
(i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4
- Assume suitable data wherever necessary.
- Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	Explain the process of Communication (Cycle) with Diagram.	6
	b)	Explain the Types of Non-Verbal Communication.	4
<b>OR</b>			
2.	a)	Write in Detail about the Advantages and Disadvantages of Oral Communication.	6
	b)	Explain the various Barriers to Communication.	4
3.	a)	Write a Notice & Agenda of a Business Meeting in proper format.	6
	b)	Write a note on Importance of Listening Skills in communication.	4
<b>OR</b>			
4.	a)	Explain the process and Techniques of Group Discussion.	6
	b)	Discuss the types of Listening skills in business communication.	4

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 GNET/2021-2022/ODD/ RES-1-ET / AP/PH  
 Second Sessional Test (2021-22)

Page No. A  
 Subject Name: Applied Physics  
 Time: (04 pm - 1.00 pm) (1 Hour)  
 Date of Exam: 24/02/22  
 Year/Sem: 1<sup>st</sup> /1<sup>st</sup> Sem.- A & B  
 Mas. Marks: - 30 M

Name of Student: \_\_\_\_\_  
 College Roll No. \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry 4 marks.
- Solve ALL questions as follows:  
 1. In Compton Effect  
 a. Plot  $\Delta\lambda$  vs  $\theta$   
 b. Name of photon  
 c. Ray Photon  
 d. De Broglie  
 e. De Broglie  
 f. De Broglie  
 g. De Broglie  
 h. De Broglie  
 i. De Broglie  
 j. De Broglie  
 k. De Broglie  
 l. De Broglie  
 m. De Broglie  
 n. De Broglie  
 o. De Broglie  
 p. De Broglie  
 q. De Broglie  
 r. De Broglie  
 s. De Broglie  
 t. De Broglie  
 u. De Broglie  
 v. De Broglie  
 w. De Broglie  
 x. De Broglie  
 y. De Broglie  
 z. De Broglie

10. Calculate the Zero-point energy for a particle in an infinite potential well for an electron confined to a 1 nm atom. (Given: Planck's constant  $h = 6.63 \times 10^{-34}$  Js and mass of electron  $m = 9.1 \times 10^{-31}$  kg.)  
 a.  $3.9 \times 10^{-19}$  J  
 b.  $4.9 \times 10^{-19}$  J  
 c.  $4.0 \times 10^{-19}$  J  
 d.  $4.8 \times 10^{-19}$  J

ANS: \_\_\_\_\_

11. Which of the following is a property of absorption lines?  
 a. Sharp emission lines  
 b. Sharp emission lines  
 c. Long range order  
 d. De Broglie wave

ANS: \_\_\_\_\_

12. What is the atomic packing factor of FCC structure?  
 a. 0.54  
 b. 0.68  
 c. 0.74  
 d. 0.96

ANS: \_\_\_\_\_

13. Nickel crystallizes in FCC lattice. The edge of the unit cell is 3.52 Å. The atomic weight is 58.71 kg/mol. Determine the density of the Nickel. Avogadro's No. =  $6.023 \times 10^{23}$  atoms/mole.  
 a.  $7000 \text{ kg/m}^3$   
 b.  $8941.3 \text{ kg/m}^3$   
 c.  $8978 \text{ kg/m}^3$   
 d.  $6200 \text{ kg/m}^3$

ANS: \_\_\_\_\_

14. What is the principle of working of optical fiber?  
 a. Frequency modulation  
 b. Population inversion  
 c. Total internal reflection  
 d. Doppler Effect

ANS: \_\_\_\_\_

15. A cone enclosing all possible allowed directions so that they will satisfy total internal reflection in the optical fiber is known as  
 a. Acceptance cone  
 b. Acceptance angle  
 c. Angle of cone  
 d. Reflection angle

ANS: \_\_\_\_\_

16. The numerical aperture of an optical is 0.3 and the core refractive index is 1.54. Find the refractive index of cladding.  
 a. 1.55  
 b. 1.45  
 c. 1.65  
 d. 1.35

ANS: \_\_\_\_\_

17. Bragg's law is related to  
 a. Law of reflection of light  
 b. Law of refraction of light  
 c. Law of refraction of electron  
 d. Law of reflection of electron

ANS: \_\_\_\_\_

18. Synchronization is the method of  
 a. Unlocking the frequency  
 b. Locking A.C. Voltage  
 c. Locking the frequency  
 d. Unlocking A.C. Voltage

ANS: \_\_\_\_\_

19. In Velocity Selector, the electron will travel undeflected path only if the velocity is  
 a.  $B/E$   
 b.  $E/B$   
 c.  $E/B$   
 d.  $B/E$

ANS: \_\_\_\_\_

20. The trajectory of an electron under the influence of a uniform magnetic field, when it is injected in the perpendicular direction to the magnetic field is  
 a. Circular  
 b. Helix  
 c. Linear  
 d. Parabolic

ANS: \_\_\_\_\_

10. The trajectory of an electron under the influence of a uniform magnetic field, when it is injected in the perpendicular direction to the magnetic field is  
 a. Circular  
 b. Helix  
 c. Linear  
 d. Parabolic

ANS: \_\_\_\_\_

11. In Compton Effect  
 a. Plot  $\Delta\lambda$  vs  $\theta$   
 b. Name of photon  
 c. Ray Photon  
 d. De Broglie  
 e. De Broglie  
 f. De Broglie  
 g. De Broglie  
 h. De Broglie  
 i. De Broglie  
 j. De Broglie  
 k. De Broglie  
 l. De Broglie  
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 s. De Broglie  
 t. De Broglie  
 u. De Broglie  
 v. De Broglie  
 w. De Broglie  
 x. De Broglie  
 y. De Broglie  
 z. De Broglie

ANS: \_\_\_\_\_

12. Characteristic X-ray emission conditions  
 a. Particle nature of electron  
 b. Wave nature of electron  
 c. Wave nature of photon  
 d. Wave nature of electron

ANS: \_\_\_\_\_

13. Complete the following statement: According to the de Broglie relation, the wavelength of a "matter" wave is inversely proportional to  
 a. Planck's Constant  
 b. The Force Of The Particle  
 c. The Momentum Of The Particle  
 d. The Frequency Of The Wave

ANS: \_\_\_\_\_

14. The expression for Compton Shift (where symbols have their usual meaning) is given by  
 a.  $\Delta\lambda = \frac{h}{m_0 c} (1 - \cos\theta)$   
 b.  $\Delta\lambda = \frac{h}{m_0 c} (1 + \cos\theta)$   
 c.  $\Delta\lambda = \frac{h}{m_0 c} (1 - \sin\theta)$   
 d. None of these

ANS: \_\_\_\_\_

15. In Compton scattering, wavelength of scattered X-ray photon is 0.2032 Å and the energy of scattered photon is 4 eV. (Constant,  $h = 6.63 \times 10^{-34}$  J.s and  $m = 9.1 \times 10^{-31}$  kg,  $hc = 12400$  eV)  
 a.  $0.089739$  eV  
 b.  $0.089739$  eV  
 c.  $0.089739$  eV  
 d.  $0.089739$  eV

ANS: \_\_\_\_\_

16. Justification of Bohr's Quantization condition of angular momentum can be justified using  
 a. de-Broglie's hypothesis  
 b. Compton effect  
 c. Devisson and Germer experiment  
 d. HeHe's law

ANS: \_\_\_\_\_

17. Heisenberg's Uncertainty Principle for measurement of energy and time  
 a.  $\Delta E \Delta t \geq \frac{h}{4\pi}$   
 b.  $\Delta E \Delta t \geq \frac{h}{2\pi}$   
 c.  $\Delta E \Delta t \geq \frac{h}{\pi}$   
 d. None of the above

ANS: \_\_\_\_\_

18. According to Normalization condition of wave function, if at all the particle exists, then total probability of finding the particle in space must be  
 a. Zero  
 b. Unity  
 c. Infinity  
 d. Double

ANS: \_\_\_\_\_

19. An electron is traveling with the velocity 220 m/s, measured to accuracy of 0.005 %. Calculate uncertainty in position of it.  
 a. 0.105 m  
 b. 1.05 m  
 c. 10.05 m  
 d. 0.0105 m

ANS: \_\_\_\_\_

20. Calculate the Zero-point energy for a particle in an infinite potential well for an electron confined to a 1 nm atom. (Given: Planck's constant  $h = 6.63 \times 10^{-34}$  Js and mass of electron  $m = 9.1 \times 10^{-31}$  kg.)  
 a.  $3.9 \times 10^{-19}$  J  
 b.  $4.9 \times 10^{-19}$  J  
 c.  $4.0 \times 10^{-19}$  J  
 d.  $4.8 \times 10^{-19}$  J

ANS: \_\_\_\_\_



**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501  
 GNET2021-2022 (E-Engg and Environment)M  
 Second Semestral Test (02/1/22)

Date of Exam: 19/01/22  
 Time: 17:30 hrs. - A & B  
 Max. Marks: 30 M

Subject Name: Energy and Environment  
 Time: 2:00 hrs. (30 per 1 Hour)

**INSTRUCTIONS TO CANDIDATE:**  
 1) All questions carry 1 marks.  
 2) Solve ALL questions as follows

- The principle of reduced ecology was defined by  
 a) Al-Jabri b) Maudsli c) T. B. Lee d) Anonim
- In phosphoric acid fuel cell, H<sub>2</sub>PO<sub>4</sub> is \_\_\_\_\_  
 a) Fuel b) Electrolyte c) Hydroxide d) By-product
- Hybrid electric vehicles are powered by  
 a) an electric motor b) an internal combustion engine and an electric motor  
 c) an internal combustion engine d) none of these
- The process of splitting water molecules in the presence of light energy is called \_\_\_\_\_  
 a) Electrolysis b) Photolysis c) Radiolysis d) Thermolysis
- Observed rate of  $\text{PbO}$  is  $1.0086 \times 10^{-3}$  mole. Calculate its kinetic energy, if amount of electrodes and pressure are  $1.0086 \times 10^{-3}$  mole and  $1.07825$  atm respectively  
 a) BE =  $128.9086 \text{ eV}$  b) BE =  $120.9086 \text{ eV}$  c) BE =  $18.9086 \text{ eV}$  d) BE =  $120.9086 \text{ eV}$
- Enhancing response of the photo catalyst in the visible and near IR region of the electromagnetic spectrum is known as  
 a) increasing efficiency b) de-sensitizing c) sensitizing d) none of these
- Which of the following is not a step to support green computing?  
 a) Using energy-efficient devices.  
 b) Turning off computers when not required.  
 c) Using screen savers  
 d) Recycling computers rather than discarding them.
- Which of the following is an example of proton exchange membrane?  
 a) Nadine b) Anion exchanger membrane  
 c) Hydroxide exchanger d)  $\text{Na}^+$  exchanger
- The oxidant used in alkaline fuel cell should be free from \_\_\_\_\_  
 a)  $\text{H}_2\text{O}$  and  $\text{CO}_2$  b)  $\text{CO}_2$  only c)  $\text{H}_2\text{O}$  only d)  $\text{N}_2$
- $\text{NO}_x$  emission due to bio-diesel combustion can be reduced by using \_\_\_\_\_  
 a) Molecular sieves b) Desorbent c) Catalytic converters d) Absorbent

- Removal of impurities and convert raw materials into useful products in Petroleum industry known as  
 a) Up stream b) Mid stream c) Down stream d) None
- Major constituents of cement are manufactured in  
 a) Churning zone b) Calcination zone c) Preheating zone d) Clinkering zone
- The substances which supply mainly calcium oxide ( $\text{CaO}$ ) for Cement manufacturing is known as  
 a) Argillaceous material b) Calcareous material c) Raw material d) Fuel
- What is Haber's Synthesis?  
 a) Alternative method of sulphuric acid synthesis  
 b) Alternative method of Ammonia synthesis.  
 c) Synthesis in Petroleum Industry  
 d) Method of Cement manufacturing.
- $\text{SO}_2$  is oxidized to  $\text{NO}_3$  in the presence of air in presence of \_\_\_\_\_  
 a)  $\text{MnO}_2$  b)  $\text{SnO}_2$  c)  $\text{V}_2\text{O}_5$  d)  $\text{V}_2\text{O}_3$
- Hydrogen used in Green Ammonia synthesis is obtained from  
 a) Electrolysis of water b) Atmospheric Hydrogen  
 c) From methane d) Petroleum refining
- In Haber process of synthesis of ammonia, recycling of reactant is necessary  
 a) To increase the reaction rate b) To increase the overall yields  
 c) Both d) None
- Eutrophication: they stimulate plant growth on soil. This increased aquatic plantlife can produce floating surface scum known as  
 a) Fungal Blooms b) Bacterial Blooms c) Algal blooms d) None
- In which Nitrogenous fertilizers, % of Nitrogen is more  
 a) Ammonium nitrate b) Aqueous ammonia  
 c) Anhydrous ammonia d) None
- Denitrification is \_\_\_\_\_  
 a) loss of nitrate to the air as  $\text{N}_2$  gas under anaerobic conditions  
 b) loss of nitrite to the air as  $\text{N}_2$  gas under anaerobic conditions  
 c) loss of ammonium to the air as  $\text{N}_2$  gas under anaerobic conditions  
 d) None

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
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 GNET2021-2022 (E-Engg and Environment)M  
 Second Semestral Test (02/1/22)

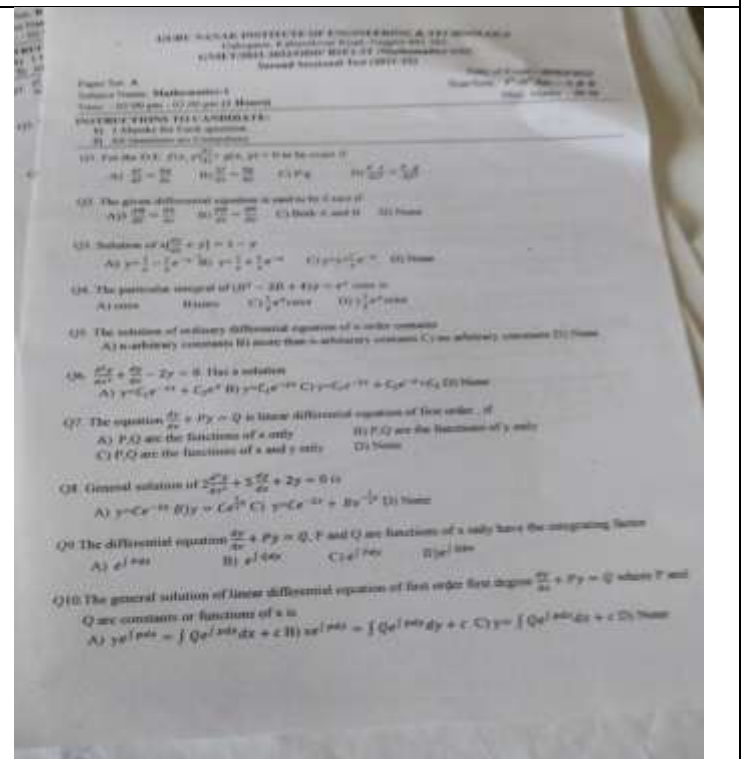
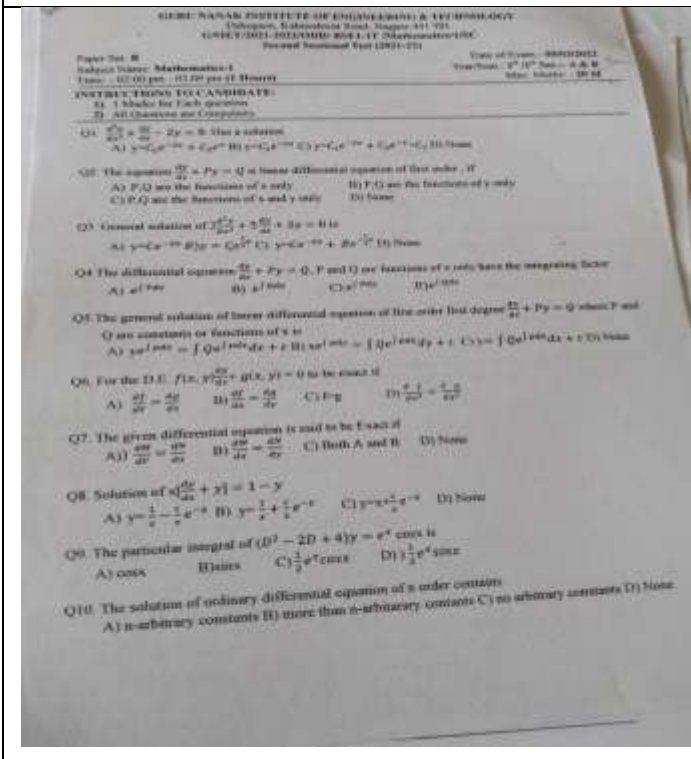
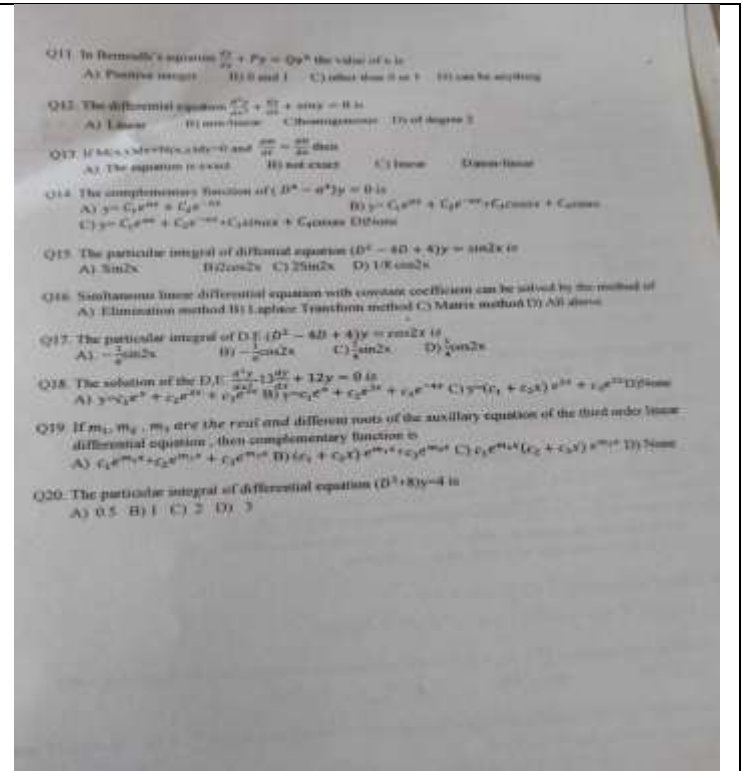
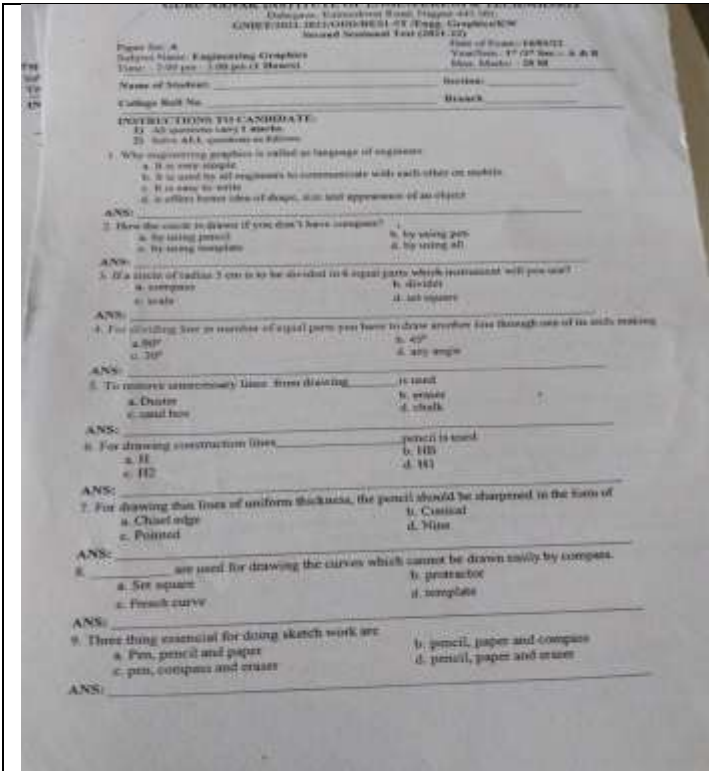
Date of Exam: 19/01/22  
 Time: 17:30 hrs. - A & B  
 Max. Marks: 30 M

Subject Name: Engineering Graphics  
 Time: 2:00 hrs. (30 per 1 Hour)

**INSTRUCTIONS TO CANDIDATE:**  
 1) All questions carry 1 marks.  
 2) Solve ALL questions as follows

- Why engineering graphics is called as language of engineers  
 a. It is very simple.  
 b. It is used by all engineers to communicate with each other in a simple way.  
 c. It is easy to write.  
 d. It offers better idea of shape, size and appearance of an object.
- How the circle to draw if you don't have compass?  
 a. by using pencil  
 b. by using glass  
 c. by using triangle  
 d. by using oil
- If a circle of radius 5 cm is to be divided in 8 equal parts which instrument will you use?  
 a. compass  
 b. divider  
 c. scale  
 d. set square
- For dividing line in number of equal parts you have to draw another line through one of its ends making  
 a.  $30^\circ$   
 b.  $45^\circ$   
 c.  $20^\circ$   
 d. any angle
- To remove unnecessary lines from drawing, it used  
 a. Divider  
 b. eraser  
 c. sand box  
 d. thick
- For drawing construction lines, pencil is used  
 a. H  
 b. HB  
 c. 2B  
 d. 3B
- For drawing thin lines of uniform thickness, the pencil should be sharpened in the form of  
 a. Chisel edge  
 b. Conical  
 c. Pointed  
 d. None
- \_\_\_\_\_ are used for drawing the curves which cannot be drawn easily by compass.  
 a. Set square  
 b. protractor  
 c. French curve  
 d. template
- Three things essential for doing sketch work are  
 a. Pen, pencil and paper  
 b. pencil, paper and compass  
 c. pen, compass and eraser  
 d. pencil, paper and tracer

1. In a circle of radius 5 cm, the distance between two parallel chords of length 8 cm and 6 cm is  
 a. 1 cm b. 2 cm c. 3 cm d. 4 cm
2. A circle of radius 5 cm is divided into 8 equal parts. Which instrument will you use?  
 a. compass b. divider c. scale d. set square
3. For dividing line in number of equal parts you have to draw another line through one of its ends making  
 a.  $30^\circ$  b.  $45^\circ$  c.  $20^\circ$  d. any angle
4. To remove unnecessary lines from drawing, it used  
 a. Divider b. eraser c. sand box d. thick
5. For drawing thin lines of uniform thickness, the pencil should be sharpened in the form of  
 a. Chisel edge b. Conical c. Pointed d. None
6. \_\_\_\_\_ are used for drawing the curves which cannot be drawn easily by compass.  
 a. Set square b. protractor c. French curve d. template
7. Three things essential for doing sketch work are  
 a. Pen, pencil and paper b. pencil, paper and compass  
 c. pen, compass and eraser d. pencil, paper and tracer





**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 (GATEWAY TO KNOWLEDGE) (GATEWAY TO KNOWLEDGE)  
 Second Semester Year 2021-22

Page No. A  
 Subject Name: BOME  
 Time: 2.00 pm - 3.00 pm (1 Hour)

Name of Candidate: \_\_\_\_\_  
 Roll No.: \_\_\_\_\_  
 Section: \_\_\_\_\_  
 Branch: \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry 1 mark.
- Write A.E. questions as follows.

- The detention period for plain sedimentation water tanks is usually
  - 1.5 to 2 hours
  - 2 to 3 hours
  - 3 to 4 hours
  - 4 to 5 hours

ANS: \_\_\_\_\_

- Pick up the correct statement from the following:
  - Lime may be used to soften the hard water
  - Excessive use of lime may kill the bacteria
  - Excessive lime when added to water, raises its pH value
  - All the above

ANS: \_\_\_\_\_

- Hardness of water can be removed by boiling of it as due to
  - Calcium bicarbonates
  - Calcium sulphates
  - Calcium chloride
  - Calcium nitrate

ANS: \_\_\_\_\_

- Hardness of water is caused by
  - Presence of soap lather
  - Presence of chlorides and sulphates of sodium and potassium
  - Presence of bicarbonates, sulphates or chlorides of calcium and magnesium
  - Turbidity

ANS: \_\_\_\_\_

- Permanent hardness of water can be removed by
  - Adding alum
  - Adding lime
  - Adding chlorine
  - Zoofine process

ANS: \_\_\_\_\_

- Distribution of water with ozone is not good because
  - It vanishes before water reaches the consumers
  - It removes the color, taste and odour from water as bacteria
  - It adds taste to the water
  - It is more efficient than chlorine in killing bacteria

ANS: \_\_\_\_\_

- The efficiency of sedimentation tank does not depend upon
  - Depth of tank
  - Length of tank
  - Detention period
  - Velocity of water

ANS: \_\_\_\_\_

- Hard water contains
  - Calcium
  - Magnesium bicarbonates
  - Magnesium sulphate
  - All the above

ANS: \_\_\_\_\_

- Water supply system includes
  - Digging a well for water
  - Construction of dams
  - Construction of canals
  - Entire arrangement from source to distrib

ANS: \_\_\_\_\_

- The best process of distribution of public water supply, is by
  - Boiling
  - Chlorination
  - Adding lime
  - Adding ozone

ANS: \_\_\_\_\_

- For controlling algae, the most commonly used chemical, is
  - Copper sulphate
  - Alum
  - Chlorine powder
  - None

ANS: \_\_\_\_\_

- The bacteria which may survive with or without free oxygen, are called
  - Acrobic bacteria
  - Anaerobic bacteria
  - Facultative bacteria
  - None of these

ANS: \_\_\_\_\_

- Aerators of water is done to remove
  - Oxide
  - Color
  - Bacteria
  - Turbidity

ANS: \_\_\_\_\_

- May not contain much impurity if its source is
  - Reservoir
  - Stream flowing in plain
  - Lake in lower regions
  - Spring along hill slopes

ANS: \_\_\_\_\_

- Turbidity of water is expressed
  - In ppm
  - In numbers in an arbitrary scale
  - By pH value
  - By color code

ANS: \_\_\_\_\_

- At break point of chlorination,
  - Chlorine is used to oxidize
  - Residual chlorine is zero
  - Residual chlorine is maximum
  - Residual chlorine appears

ANS: \_\_\_\_\_

- By boiling water, hardness can be removed if it is due to
  - Calcium sulphate
  - Magnesium sulphate
  - Calcium nitrate
  - Calcium bicarbonate

ANS: \_\_\_\_\_

- The type of pipe commonly used in water supply distribution schemes, is
  - R.C.C. pipes
  - Stam pipes
  - Cast iron pipes
  - G.I. pipes

ANS: \_\_\_\_\_

- Acidity in water is caused due to
  - Mineral acids
  - Free CO<sub>2</sub>
  - Iron sulphate
  - All the above

ANS: \_\_\_\_\_

- How many major sources of solid waste are there based on their origin?
  - 10
  - 5
  - 9
  - 6

ANS: \_\_\_\_\_

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 (GATEWAY TO KNOWLEDGE) (GATEWAY TO KNOWLEDGE)  
 Second Semester Year 2021-22

Page No. B  
 Subject Name: BOME  
 Time: 2.00 pm - 3.00 pm (1 Hour)

Name of Candidate: \_\_\_\_\_  
 Roll No.: \_\_\_\_\_  
 Section: \_\_\_\_\_  
 Branch: \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry 1 mark.
- Write A.E. questions as follows.

- Disinfectant waste can be effectively managed by the thermal process.
  - True
  - False

ANS: \_\_\_\_\_

- The WHO has classified the bio-medical waste into \_\_\_\_\_ categories.
  - 2
  - 3
  - 4
  - 5

ANS: \_\_\_\_\_

- Which gas produced in open dump from the decomposition of biodegradable waste?
  - Carbon
  - Methane
  - Hydrogen
  - Sulphur

ANS: \_\_\_\_\_

- Which is the latest version of AutoCAD software?
  - 2016
  - 2017
  - 2018
  - 2019

ANS: \_\_\_\_\_

- AutoCAD was first released in the year
  - 1970
  - 1980
  - 1990
  - 2000

ANS: \_\_\_\_\_

- The cast iron pipes for water supply system are used for
  - Durability
  - Strength
  - Easy construction
  - All the above

ANS: \_\_\_\_\_

- How many users are available in AutoCAD?
  - 4
  - 5
  - 7
  - 8

ANS: \_\_\_\_\_

- How many workspaces are available in AutoCAD?
  - 2
  - 3
  - 4
  - 5

ANS: \_\_\_\_\_

- To obtain parallel lines, concentric circles and parallel curves, \_\_\_\_\_ is used.
  - Array
  - Fillset
  - Copy
  - Offset

ANS: \_\_\_\_\_

- What is the full form of SCADA?
  - Supervisory Control and Data Acquisition
  - Supervisory Control and Data Assessment
  - Supervisory Control and Data Assessment
  - Supervisory Control and Data Acquisition

ANS: \_\_\_\_\_

- SCADA is
  - Open-Ended Control System
  - Open-Ended Control System
  - Open-Ended Control System
  - Open-Ended Control System

ANS: \_\_\_\_\_

- What is SCADA?
  - Software
  - Process
  - System
  - Hardware

ANS: \_\_\_\_\_

- The control in SCADA is
  - Control system
  - Control system
  - Control system
  - Control system

ANS: \_\_\_\_\_

- When did the SCADA start?
  - 1980s
  - 1990s
  - 1970s
  - 1960s

ANS: \_\_\_\_\_

- When did Windows become the world standard operating system?
  - 1980s
  - 1990s
  - 1970s
  - 1960s

ANS: \_\_\_\_\_

- Which of the following is an example of the SCADA system?
  - Emerson Delta V
  - Honeywell Plant Scape
  - Yokogawa CENTUM
  - Process Studio Enterprise

ANS: \_\_\_\_\_

- How many levels are present in a complex SCADA system?
  - 2 - levels
  - 5 - levels
  - 4 - levels
  - 6 - levels

ANS: \_\_\_\_\_

- \_\_\_\_\_ is a programme run by UN related to sustainable development.
  - SDG indicator
  - Agenda 21
  - IPCC
  - UNEP

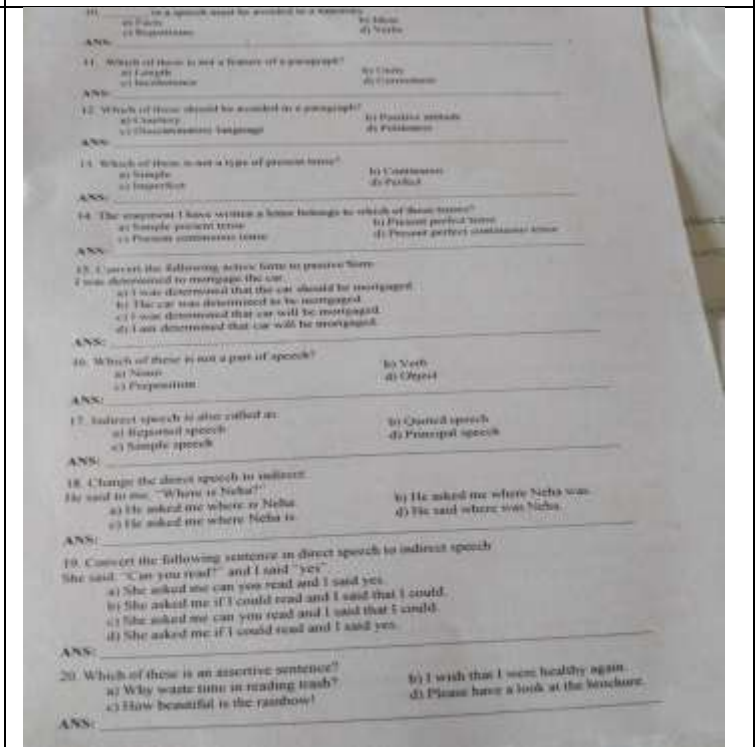
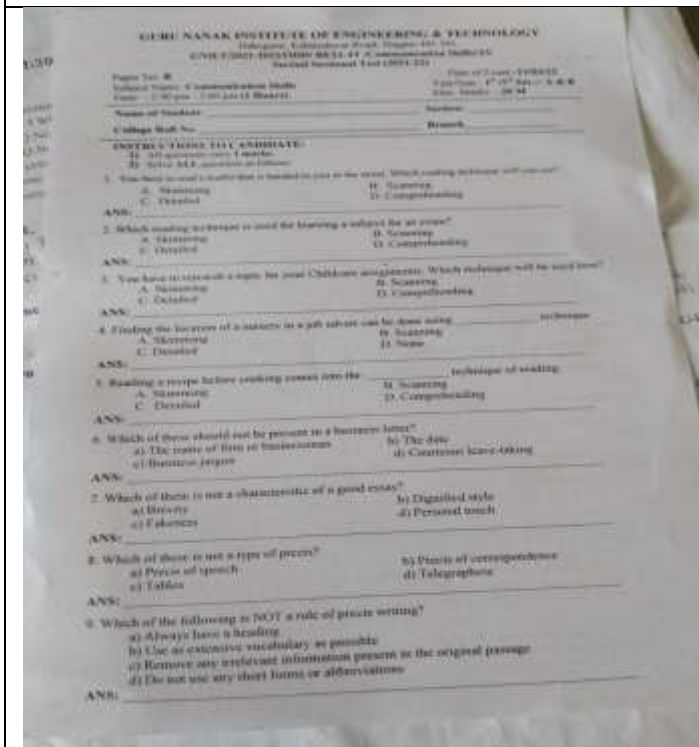
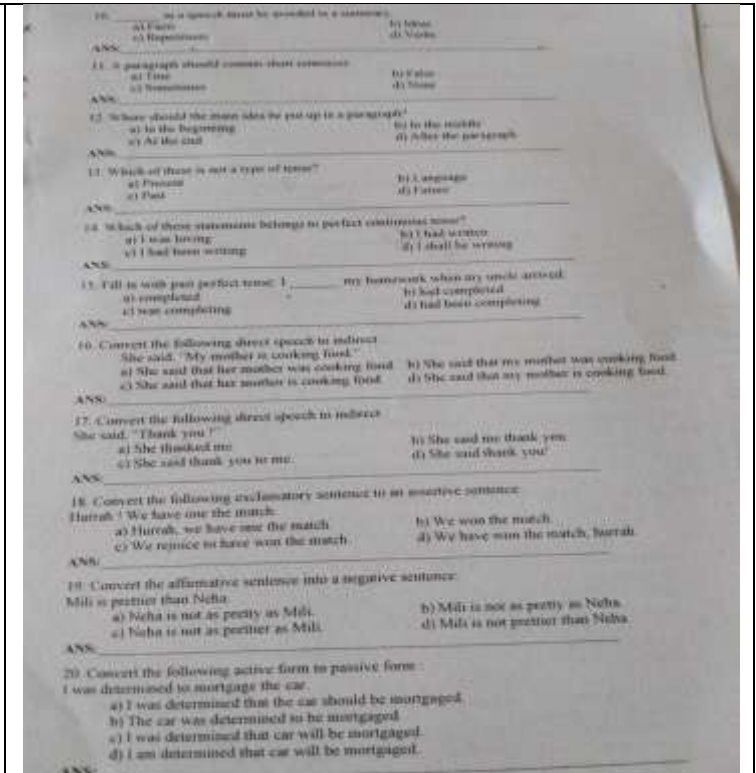
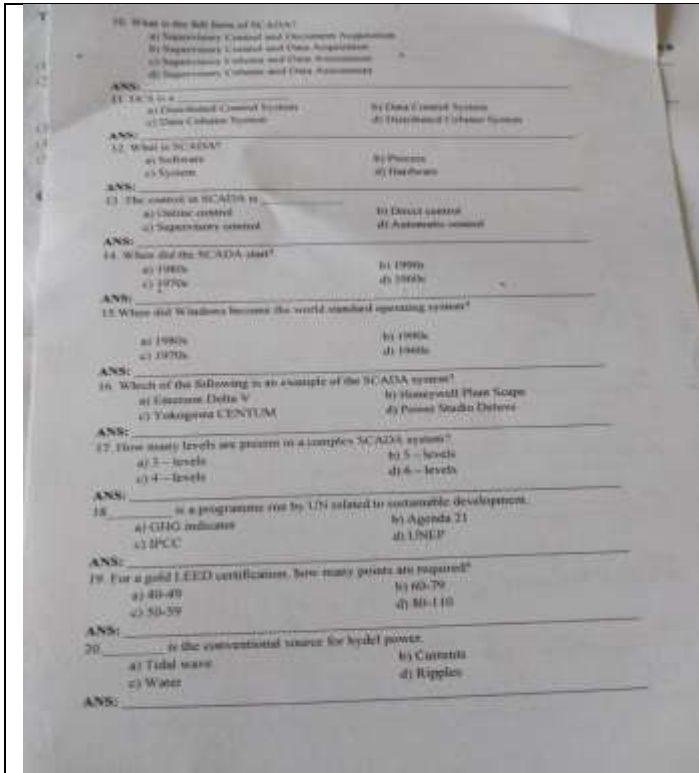
ANS: \_\_\_\_\_

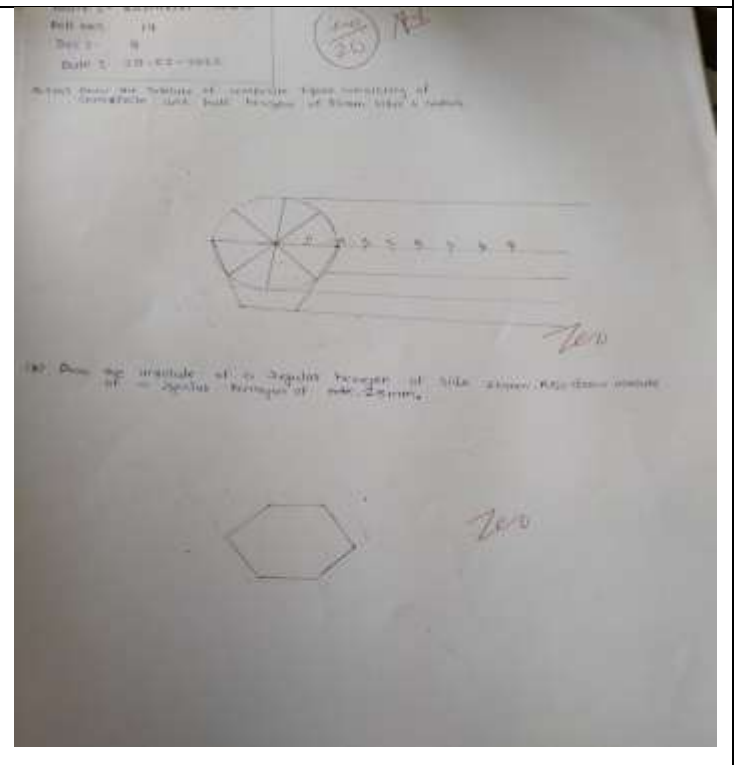
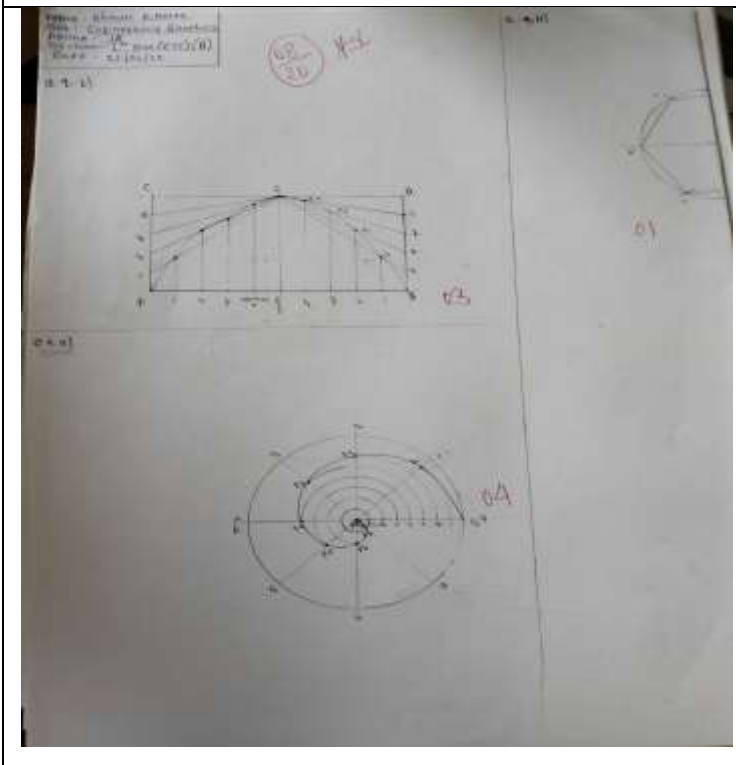
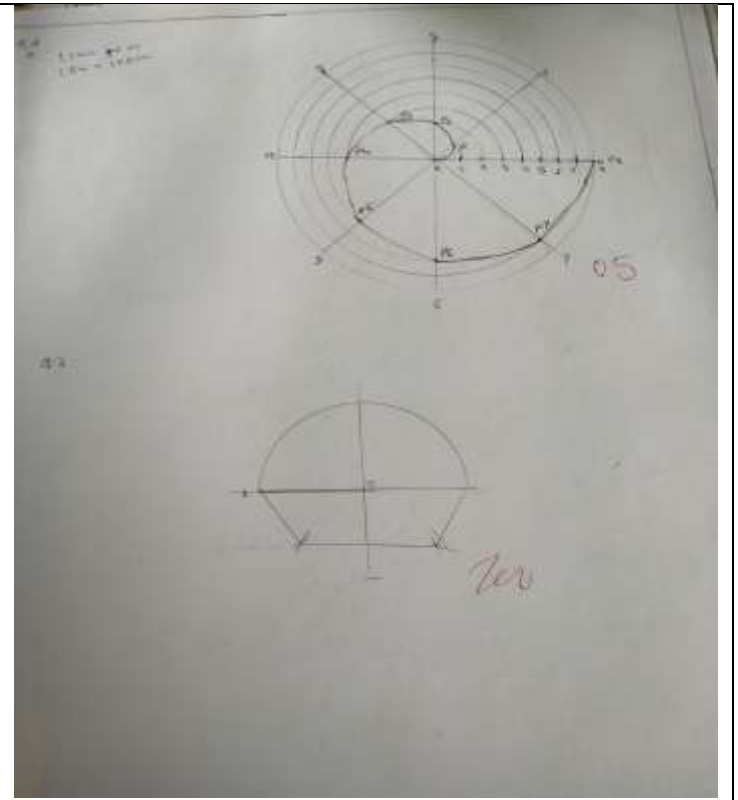
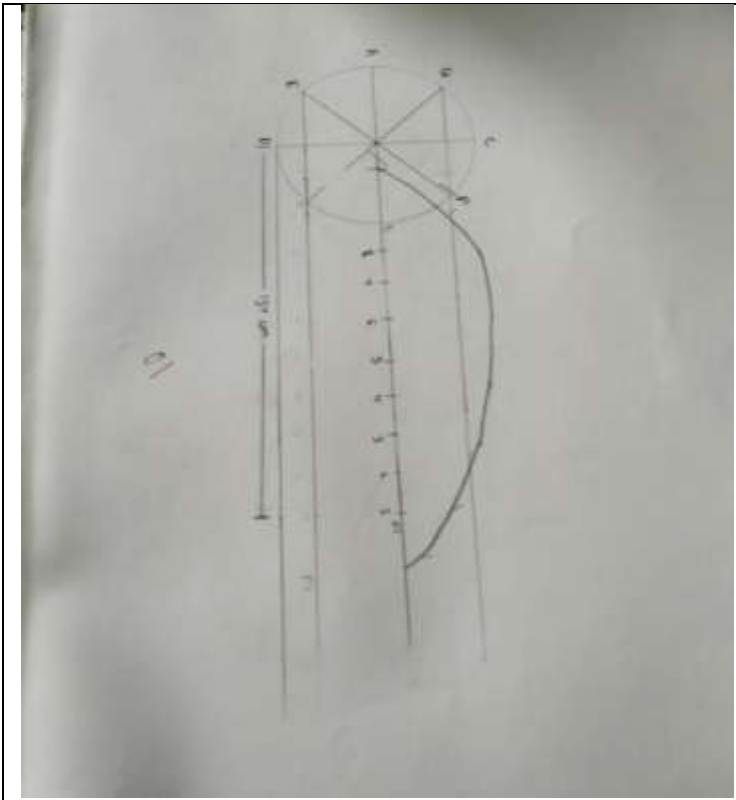
- For a gold LEED certification, how many points are required?
  - 40-49
  - 60-79
  - 80-89
  - 90-110

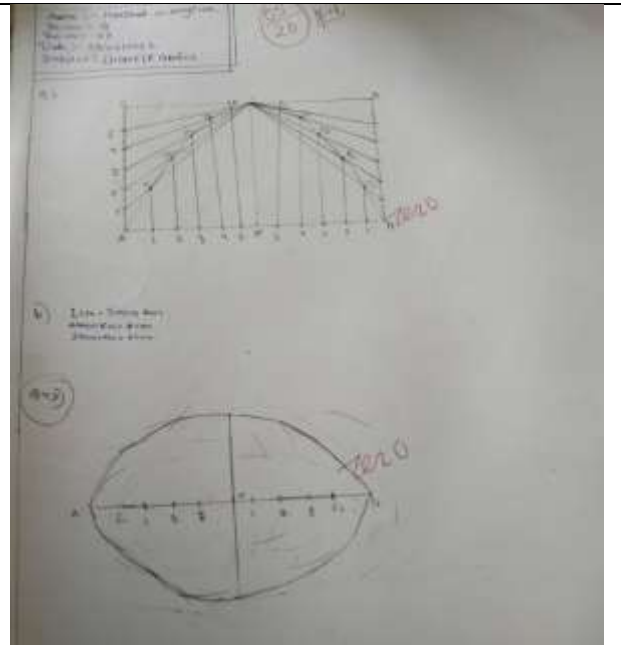
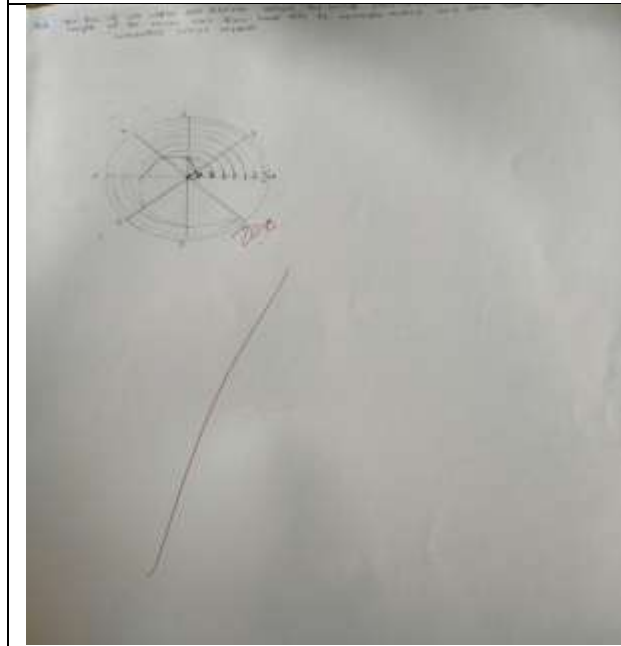
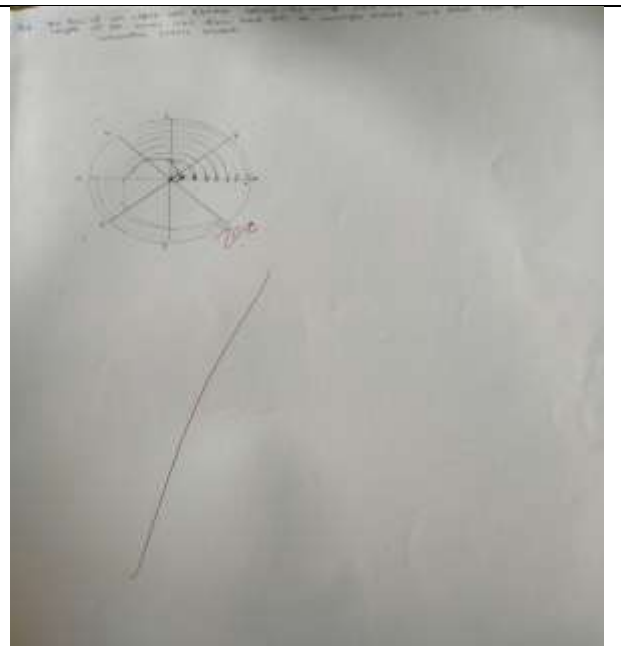
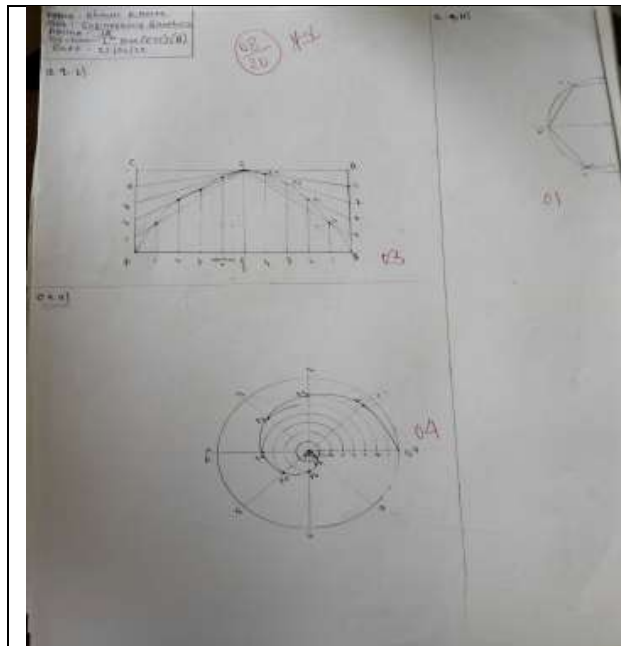
ANS: \_\_\_\_\_

- \_\_\_\_\_ is the conventional source for hydro power.
  - Tidal wave
  - Currents
  - Water
  - Ripples

ANS: \_\_\_\_\_











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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



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 Second Semester Year (2021-22)

Page No. A  
 Subject Name: RCNE  
 Date of Exam: 15/01/22  
 Time: 2:00 pm - 2:30 pm (1.5 Hours)  
 Year: 1<sup>st</sup> Year: A & B  
 Max. Marks: 30 M

Name of Student: Harshil R. Ramakrishna Section: A  
 College Roll No. 07 Branch: ETC

**INSTRUCTIONS TO CANDIDATE:**  
 1) All questions carry 1 mark.  
 2) Write ALL questions as follows.

1. The diagram given for plate sedimentation water tank, is ready to be used for 24 hours. (10) 10 to 15 hours (10) 20 to 30 hours  
 ANS: 24 to 36 hours

2. Pick up the correct statement from the following:  
 (A) Fine sand may be used to settle the hard water.  
 (B) Excessive lime when added to water, raises the pH value.  
 (C) All the above  
 ANS: All the above

3. Hardness of water can be removed by heating it as due to:  
 (A) Calcium sulphates (B) Calcium sulphate  
 (C) Calcium chloride (D) Calcium carbonate  
 ANS: Calcium carbonate

4. Hardness of water is caused by:  
 (A) Presence of soap matter (B) Presence of chlorides and sulphates of sodium and potassium  
 (C) Presence of bicarbonates, sulphates or chlorides of calcium and magnesium (D) All the above  
 ANS: Presence of bicarbonates, sulphates or chlorides of calcium and magnesium

5. Permanent hardness of water can be removed by:  
 (A) Adding lime (B) Adding soda (C) Adding alum (D) Adding potash  
 ANS: soda lime process

6. Disinfection of water with ozone is more good because:  
 (A) It requires better water than the chlorine.  
 (B) It does not leave any taste, odor and color from water in bacteria.  
 (C) It is effective in the water.  
 (D) It is more efficient than chlorine in killing bacteria.  
 ANS: It is more efficient than chlorine in killing bacteria

7. The efficiency of sedimentation tank does not depend upon:  
 (A) Depth of tank (B) Length of tank (C) Duration period (D) Velocity of water  
 ANS: Velocity of water

8. Hard water contains:  
 (A) Calcium (B) Magnesium bicarbonate (C) Magnesium sulphate (D) All the above  
 ANS: All the above

9. Water supply systems include:  
 (A) Digging a well for water (B) Construction of canals (C) Construction of dams (D) Fetch arrangement from source to distribution  
 ANS: Entire arrangement from source to distribution

10. The best process of disinfection of public water supply, is by:  
 (A) Boiling (B) Chlorination (C) Adding ozone (D) Adding chlorine  
 ANS: Chlorination

11. For coagulating algae, the most commonly used chemical is:  
 (A) Alum (B) Ferric sulphate (C) Copper sulphate (D) Ferrous sulphate  
 ANS: Copper sulphate

12. The bacteria which give marine water its odorous character, are called:  
 (A) Sulfidogenic bacteria (B) Anaerobic bacteria (C) Sulfurogenic bacteria (D) None of these  
 ANS: Anaerobic bacteria

13. Suspended matter in water is known as:  
 (A) Colloid (B) Color (C) Suspended matter (D) Turbidity  
 ANS: Colloid

14. May we remove such impurity if its content is:  
 (A) Negligible (B) Increase flowing in stream (C) Also in lower stream (D) Spreads along hill slopes  
 ANS: Spreads along hill slopes

15. Turbidity of water is equivalent to:  
 (A) Its pH value (B) Its equivalent in an arbitrary scale (C) Its color (D) Its solid content  
 ANS: In ppm

16. At break point of chlorination,  
 (A) Chlorine is used to oxidize (B) Residual chlorine is zero (C) Residual chlorine is maximum (D) Residual chlorine is minimum  
 ANS: Residual chlorine is zero

17. By boiling water, hardness can be removed if it is due to:  
 (A) Calcium sulphate (B) Magnesium sulphate (C) Calcium chloride (D) Calcium bicarbonate  
 ANS: Calcium bicarbonate

18. The type of pipe commonly used in water supply distribution systems, is:  
 (A) R.C.C. pipes (B) Ductile iron pipes (C) Cast iron pipes (D) G.I. pipes  
 ANS: cast iron pipes

19. Ability of water to conduct heat is:  
 (A) Measured in cal (B) Free CO<sub>2</sub> (C) Free O<sub>2</sub> (D) All the above  
 ANS: All the above

20. How many major sources of total water are there based on their origin?  
 (A) 10 (B) 6 (C) 12 (D) 4  
 ANS: 6

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 (AICTE, DTE, RTM NAGPUR UNIVERSITY) APPROVED  
 Second Semester Year (2021-22)

Page No. B  
 Subject Name: RCNE  
 Date of Exam: 15/01/22  
 Time: 2:00 pm - 2:30 pm (1.5 Hours)  
 Year: 1<sup>st</sup> Year: A & B  
 Max. Marks: 30 M

Name of Student: Adarsh A. Kulkarni Section: A  
 College Roll No. 02 Branch: ETC

**INSTRUCTIONS TO CANDIDATE:**  
 1) All questions carry 1 mark.  
 2) Write ALL questions as follows.

1. The method which can be effectively employed for the partial process of flow:  
 (A) Flow (B) None of these (C) Reverse flow (D) None  
 ANS: Flow

2. The WHO has classified the biochemical water rate as:  
 (A) 1 (B) 2 (C) 3 (D) 4  
 ANS: 2

3. Which gas produced in rapid decay from the decomposition of feeding water, is called:  
 (A) Methane (B) Hydrogen (C) Hydrogen sulphide (D) None of these  
 ANS: Methane

4. Which is the latest version of ANSI 311 software?  
 (A) 2004 (B) 2007 (C) 2010 (D) 2013  
 ANS: 2013

5. ANSI A2 was first released in the year:  
 (A) 1979 (B) 1985 (C) 1980 (D) 1982  
 ANS: 1980

6. The most lossy pipe for water supply system are used for:  
 (A) Chlorides (B) Strength (C) Joint connections (D) All the above  
 ANS: Joint connections

7. How many water are available in ANSI A2?  
 (A) 1 (B) 2 (C) 3 (D) 4  
 ANS: 2

8. How many water are available in ANSI A2?  
 (A) 1 (B) 2 (C) 3 (D) 4  
 ANS: 3

9. To offset parallel lines, concentric circles and parallel curves is called:  
 (A) Arcs (B) Tangents (C) Tangents (D) Offset  
 ANS: Offset

10. What is the full form of SCADA?  
 (A) Supervisory Control and Measurement Acquisition (B) Supervisory Control and Data Acquisition (C) Supervisory Control and Data Acquisition (D) Supervisory Control and Data Acquisition  
 ANS: Supervisory Control and Data Acquisition

11. SCADA is:  
 (A) Distributed Control System (B) Data Control System (C) Data Control System (D) Distributed Control System  
 ANS: Distributed Control System

12. What is the full form of SCADA?  
 (A) Supervisory Control and Data Acquisition (B) Supervisory Control and Data Acquisition (C) Supervisory Control and Data Acquisition (D) Supervisory Control and Data Acquisition  
 ANS: Supervisory Control and Data Acquisition

13. The control in SCADA is:  
 (A) Manual control (B) Manual control (C) Manual control (D) Manual control  
 ANS: Manual control

14. When did the SCADA start?  
 (A) 1980 (B) 1985 (C) 1990 (D) 1995  
 ANS: 1980

15. When did Windows become the world standard operating system?  
 (A) 1980 (B) 1990 (C) 1995 (D) 2000  
 ANS: 1990

16. Which of the following is an example of the SCADA system?  
 (A) Internet India (B) Power System Defense (C) Yagorod (D) None of these  
 ANS: Power System Defense

17. How many levels are provided in a computer SCADA system?  
 (A) 2 - levels (B) 3 - levels (C) 4 - levels (D) 5 - levels  
 ANS: 3 - levels

18. The SCADA software is developed by:  
 (A) IIT Bombay (B) IIT Madras (C) IIT Delhi (D) IIT Kanpur  
 ANS: Agenda 21

19. For a good SCADA application, how many points are required?  
 (A) 10-20 (B) 30-50 (C) 50-70 (D) 70-100  
 ANS: 30-50

20. In the conventional water supply system:  
 (A) Total water (B) Groundwater (C) Water (D) Rainwater  
 ANS: water



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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Organic, Subordinate Exam, Page-432-501  
 GNEI/2021/2022/0001/001/01/00/318/00  
 Second Semestor Test (2021-22)

Paper No. 0  
 Subject Name: RCME  
 Time: 200 min / 2.00 pm to 4.00 pm  
 Name of Student: Deepshikha Yadav Section: A  
 College Roll No. 14 Rank: CSC

Day of Exam: 28/04/22  
 Year/sem: 1<sup>st</sup> / 4<sup>th</sup> Year - A & B  
 Max. Marks: 20

**INSTRUCTIONS TO CANDIDATE:**  
 1. All questions carry 4 marks.  
 2. Solve 10 questions in 2 hours.

1. The duration period for plain sedimentation water tanks, is usually  
 (A) 4 to 6 hours (B) 8 to 10 hours  
 (C) 12 to 16 hours (D) 24 to 36 hours  
 ANS: 24 TO 36 hours

2. Pick up the correct statement from the following:  
 (A) Fine sand is kept in suspension in the tank water  
 (B) Fine sand is kept in suspension in the tank water  
 (C) Fine sand is kept in suspension in the tank water  
 (D) Fine sand is kept in suspension in the tank water  
 ANS: Excessive use of lime may kill the bacterias

3. The process of water softening by boiling is a chemical  
 (A) Physical process (B) Chemical process  
 (C) Biological process (D) Mechanical process  
 ANS: Calcium bicarbonates

4. Hardness of water is caused by  
 (A) Presence of soap lather (B) Presence of calcium and magnesium  
 (C) Presence of chlorine and addition of sodium and potassium  
 (D) Presence of iron bacteria  
 ANS: Presence of calcium sulphates or chlorides of calcium and magnesium

5. Presence of bicarbonates, sulphates, phosphates  
 (A) Hardness (B) Softness (C) Alkalinity (D) Acidity  
 ANS: Hardness

6. Disinfection of water with chlorine is not good because  
 (A) It is not effective (B) It is not effective  
 (C) It is not effective (D) It is not effective  
 ANS: It is more efficient than chlorine in killing bacteria

7. The efficiency of sedimentation tank does not depend upon  
 (A) Depth of tank (B) Length of tank  
 (C) Disinfection period (D) Velocity of water  
 ANS: Velocity of water

8. Liquid water treatment  
 (A) Chlorine (B) Magnesium bicarbonates  
 (C) Calcium (D) All the above  
 ANS: Calcium

9. Water supply system includes  
 (A) Digging a well for water (B) Construction of dams  
 (C) Construction of canals (D) Large arrangement from source to distribution  
 ANS: Entire arrangement from source to distribution

10. The best process of distribution of public water supply, is by  
 (A) Overhead tank (B) Gravity  
 (C) Pumping station (D) All the above  
 ANS: Overhead tank

11. For ascending slope, the most commonly used chemical, is  
 (A) Copper sulphate (B) Alum  
 (C) Lime (D) Bleaching powder  
 ANS: Alum

12. The bacteria which need oxygen with or without free oxygen, are called  
 (A) Aerobic bacteria (B) Anaerobic bacteria  
 (C) Facultative bacteria (D) None of these  
 ANS: Facultative bacterial

13. Aeration of water is done to remove  
 (A) Odour (B) Colour  
 (C) Turbidity (D) All the above  
 ANS: Odour

14. Why are certain block (ports) of 50 mm dia  
 (A) To allow air to enter (B) To allow air to enter  
 (C) To allow air to enter (D) To allow air to enter  
 ANS: Spilling along hill slopes

15. Turbidity of water is expressed  
 (A) In ppm (B) In mg/l  
 (C) In g/l (D) In ml/l  
 ANS: In ppm

16. At best point of disinfection  
 (A) Chlorine is used in 100% (B) Residual chlorine is zero  
 (C) Residual chlorine is maximum (D) Residual chlorine reappears  
 ANS: Residual chlorine reappears

17. Dry building water, hardness can be removed if it is in  
 (A) Calcium sulphate (B) Magnesium sulphate  
 (C) Calcium sulphate (D) Calcium bicarbonate  
 ANS: Calcium bicarbonate

18. The type of pipe commonly used in water supply distribution system, is  
 (A) R.C.C. pipe (B) Cast iron pipe  
 (C) C.I. pipe (D) All the above  
 ANS: Cast iron pipe

19. Acidity in water is caused due to  
 (A) Mineral acids (B) Free CO<sub>2</sub>  
 (C) Free sulphuric (D) All the above  
 ANS: All the above

20. How many major sources of solid waste are there listed on their website?  
 (A) 10 (B) 11  
 (C) 12 (D) 13  
 ANS: 11

- Q4 ⇒ C
- Q5 ⇒ A
- Q6 ⇒ A
- Q7 ⇒ A
- Q8 ⇒ C
- Q9 ⇒ A
- Q10 ⇒ A
- Q11 ⇒ C
- Q12 ⇒ B
- Q13 ⇒ A

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 Main Analysis Sheet

1. Name of the student: Deepshikha  
 2. College Roll No: 14  
 3. Subject: Engineering Graphics  
 4. Exam Name: 1st / 2nd  
 5. Date: 12-04-2022

1. Define engineering graphics.  
 2. Explain the types of thin wire & engineering graphics.  
 3. Explain the development of cylinder of diameter 40mm and height 55mm.

Q. No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Obtained Marks																				



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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

**MAIN ANSWER SHEET**

1 Name of the Student: Arshika Shivak

2 College Roll No.: 01

3 Subject: Applied Physics

4 Sem / Branch: 1st / ETC

5 Exam No.: 12/01/2022

6 Date: 1st / Oct

Q.No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

13-08-22  
14

1. Define engineering graphics.

2. List the types of lines in Engineering Graphics.

3. List out the different applications of descriptive geometry.

4. To draw the development of cylinder of diameter 40mm and height 75mm.

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

**MAIN ANSWER SHEET**

1 Name of the Student: Arshika Shivak

2 College Roll No.: 01

3 Subject: Applied Physics

4 Sem / Branch: 1st / ETC

5 Exam No.: 12/01/2022

6 Date: 1st / Oct

Q.No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

13-08-22  
14

1. Define engineering graphics.

2. List the types of lines in Engineering Graphics.

3. List out the different applications of descriptive geometry.

4. To draw the development of cylinder of diameter 40mm and height 75mm.

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

**MAIN ANSWER SHEET**

1 Name of the Student: Arshika Shivak

2 College Roll No.: 01

3 Subject: Engineering graphics

4 Sem / Branch: 1st / ETC

5 Exam No.: 12-04-2022

6 Date: 1st / Oct

Q.No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

13-08-22  
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1. Define engineering graphics.

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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

**MAIN ANSWER SHEET**

1 Name of the Student: Arshika Shivak

2 College Roll No.: 01

3 Subject: Engineering graphics

4 Sem / Branch: 1st / ETC

5 Exam No.: 12-04-2022

6 Date: 1st / Oct

Q.No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

13-08-22  
14

1. Define engineering graphics.

2. List the types of lines in Engineering Graphics.

3. List out the different applications of descriptive geometry.

4. To draw the development of cylinder of diameter 40mm and height 75mm.



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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



The development of a product is a process that involves the development of a product from a concept to a final product. It is a process that involves the development of a product from a concept to a final product. It is a process that involves the development of a product from a concept to a final product.

Product Development

In a typical waterfall style project, each phase is completed sequentially in the order before the next phase is started. One phase is completed, typically the team does not go back to it. The method makes heavily on the available. They do product development and a clear vision of the end result. The product team works through each phase together and then moves on when specific milestones for each phase have been completed.

Agile Application Development

Agile development is a methodology that uses iterative development approach. It's used in situations that are expected to have frequent requirements or scope change. Each development iteration is called a sprint and will last a specific period of time.

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1. Name of the Student: Shubham 2. Roll No.: 210101010101

3. College Roll No.: 01 4. Semester: 1

5. Subject: Maths-I 6. Section: CSE

7. Date: 05-03-21

Q. No.	1	2	3	4	5	6	7	8	9	10	Total
Mark											

Q.1. The equation  $ax^2 + bx + c = 0$  has a solution  $\frac{1}{a}$ .  
 $a^2x^2 + bx + c = 0$   
 $a^2x^2 + bx + c = 0$   
 $a^2x^2 + bx + c = 0$

The equation  $ax^2 + bx + c = 0$  has a solution  $\frac{1}{a}$ .  
 The equation  $ax^2 + bx + c = 0$  has a solution  $\frac{1}{a}$ .

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

1. Name of the Student: Shubham 2. Roll No.: 210101010101

3. College Roll No.: 01 4. Semester: 1

5. Subject: Maths-I 6. Section: CSE

7. Date: 05-03-2021

Q. No.	1	2	3	4	5	6	7	8	9	10	Total
Mark											

Q.1. What are the test requirements for computer system?  
 Q.2. Define error and how to minimize it?  
 Q.3. What is a test case?  
 Q.4. Explain the function of a test case.  
 Q.5. What is the purpose of a test case?  
 Q.6. How to minimize the error of a test case?

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

1. Name of the Student: Shubham 2. Roll No.: 210101010101

3. College Roll No.: 01 4. Semester: 1

5. Subject: Maths-I 6. Section: CSE

7. Date: 05-03-21

Q. No.	1	2	3	4	5	6	7	8	9	10	Total
Mark											

Q.1. The principle of industrial safety was defined by:  
 → (a) Taylor

Q.2. In industrial safety, the most important factor is:  
 → (b) Psychology

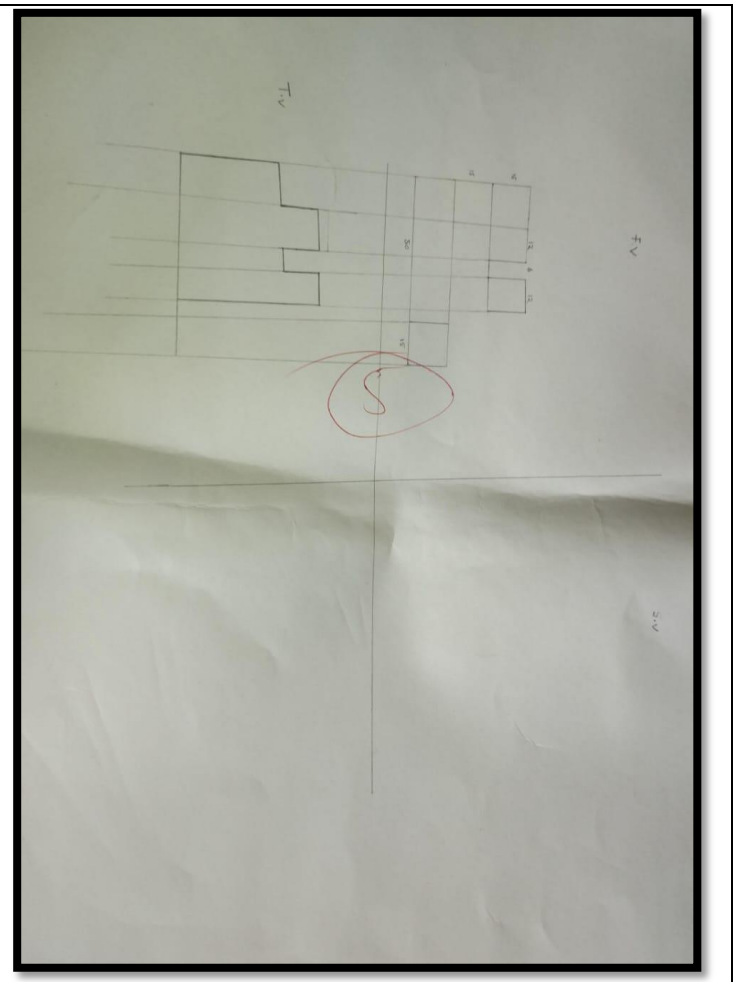
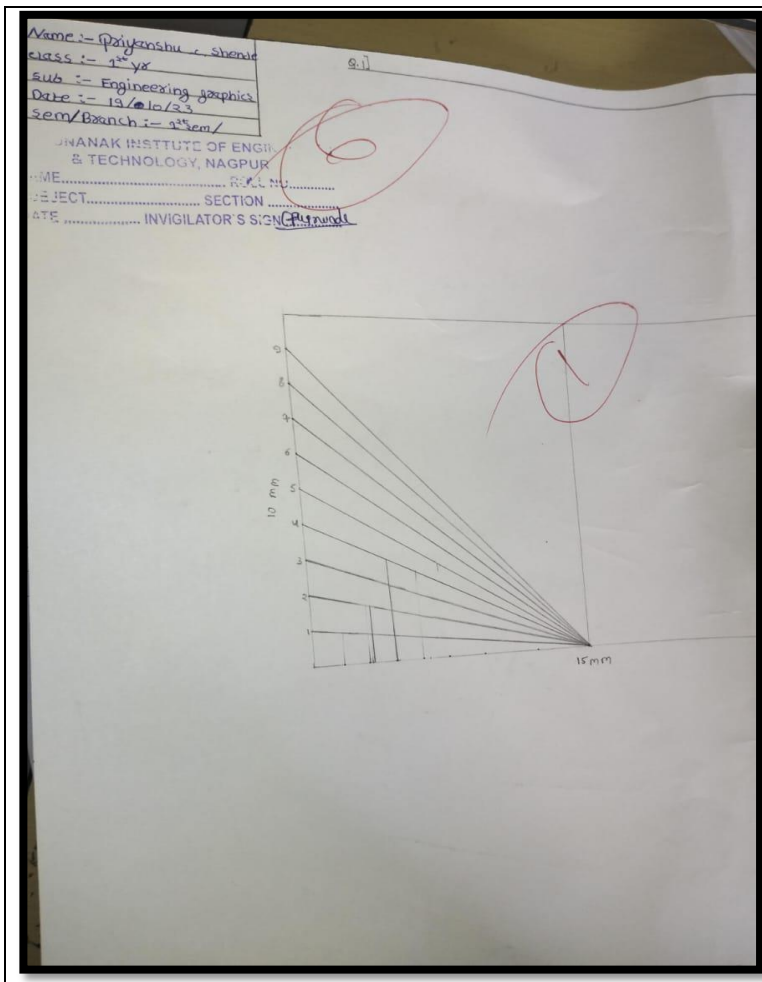


## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session 2022-23)

### Internal exam Evaluation sheets





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Q2 Using Taylor's Theorem find  $f'(x)$  where

$$f(x) = x^3 + 8x^2 + 15x - 24$$

**MAN ANSWER SHEET**

1. Name of the Student: Kapil Rajesh Dhanraj  
2. College Roll No.: 44  
3. Subject: Practicals - I  
4. Sem/Batch: EE  
5. Year/Section: C.F. 4th  
6. Enrollment No.:  
7. Date: 31/03/2023

Q.No	Marks	Obtained
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
		Total

10

Using Taylor's Theorem

$$f(x) = x^3 + 8x^2 + 15x - 24 = f(1)$$

here  $a = 1$

$$f(x) = (1 + (x-1)) \left( \frac{f(1)}{0!} + \frac{f'(1)}{1!}(x-1) + \frac{f''(1)}{2!}(x-1)^2 + \frac{f'''(1)}{3!}(x-1)^3 + \dots \right)$$

$$f(x) = (1 + (x-1)) \left( 1 + 1(x-1) + 1(x-1)^2 + 3(x-1)^3 + \dots \right)$$

$$x = 1 \quad h = 0.1$$

$$f(1 + 0.1) = f(1) + f'(1)h + \frac{f''(1)}{2!}h^2 + \frac{f'''(1)}{3!}h^3 + \dots$$

$$f(1) = 1 - 0.1 + 1 - 0.1 + 1 - 0.1 + 3(1) + 8.2(1) + 15(1) - 24$$

$$= 3(1) + 8.2(1) + 15(1) - 24$$

$$= 3 + 8.2 + 15 - 24$$

Q3)  $u = \log(x^3 + y^3 + z^3 - 3xyz)$  Show that

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = \frac{3}{x+y+z}$$

$u = \log(x^3 + y^3 + z^3 - 3xyz)$  Show that

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = \frac{3}{x+y+z}$$

$u = \log(x^3 + y^3 + z^3 - 3xyz)$

$$\frac{\partial u}{\partial x} = \frac{3x^2 - 3yz}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial y} = \frac{3y^2 - 3xz}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial z} = \frac{3z^2 - 3xy}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = \frac{3x^2 - 3yz + 3y^2 - 3xz + 3z^2 - 3xy}{x^3 + y^3 + z^3 - 3xyz}$$

$$= \frac{3(x^2 + y^2 + z^2 - xy - yz - zx)}{x^3 + y^3 + z^3 - 3xyz}$$

$$= \frac{3(x+y+z)(x^2 + y^2 + z^2 - xy - yz - zx)}{(x+y+z)(x^2 + y^2 + z^2 - xy - yz - zx)}$$

$$= \frac{3}{x+y+z}$$

Q3)  $u = \log(x^3 + y^3 + z^3 - 3xyz)$  Show that

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = \frac{3}{x+y+z}$$

$u = \log(x^3 + y^3 + z^3 - 3xyz)$

$$\frac{\partial u}{\partial x} = \frac{3x^2 - 3yz}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial y} = \frac{3y^2 - 3xz}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial z} = \frac{3z^2 - 3xy}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = \frac{3x^2 - 3yz + 3y^2 - 3xz + 3z^2 - 3xy}{x^3 + y^3 + z^3 - 3xyz}$$

$$= \frac{3(x^2 + y^2 + z^2 - xy - yz - zx)}{x^3 + y^3 + z^3 - 3xyz}$$

$$= \frac{3(x+y+z)(x^2 + y^2 + z^2 - xy - yz - zx)}{(x+y+z)(x^2 + y^2 + z^2 - xy - yz - zx)}$$

$$= \frac{3}{x+y+z}$$



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Q5. Find the inverse by partitioning Method

$$P = \begin{bmatrix} 1 & 2 & 3 & 1 \\ 1 & 3 & 3 & 2 \\ 1 & 1 & 1 & 1 \end{bmatrix} Q = \begin{bmatrix} 3 & 1 \\ 3 & 2 \\ 3 & 2 \end{bmatrix} R = \begin{bmatrix} 2 & 9 \\ 2 & 1 \\ 2 & 4 \end{bmatrix} S = \begin{bmatrix} 2 & 4 \\ 1 & 1 \\ 1 & 1 \end{bmatrix}$$

$IP \neq 0$

Q5. Find the inverse by partitioning Method

$$P = \begin{bmatrix} 1 & 2 & 3 & 1 \\ 1 & 3 & 3 & 2 \\ 1 & 1 & 1 & 1 \end{bmatrix} Q = \begin{bmatrix} 3 & 1 \\ 3 & 2 \\ 3 & 2 \end{bmatrix} R = \begin{bmatrix} 2 & 9 \\ 2 & 1 \\ 2 & 4 \end{bmatrix} S = \begin{bmatrix} 2 & 4 \\ 1 & 1 \\ 1 & 1 \end{bmatrix}$$

$IP \neq 0$

**MAIN ANSWER SHEET**

1. Name of the student: Ananya Prashant Mohan 5 Year/Section: 151

2. College Roll No.: 19

3. Subject: R.C.M.E. 6. Enrolment No.:

4. Seat/Block: FT (B) 7. Date:

Q.No.	Marks Obtained	Total
1	2	
2	3	
3	4	
4	5	
5	6	
6	7	
7	8	
8	9	
9	10	
10		

1. For the following factors should be kept in mind while selecting a site:

- The purpose of building & extent of industry is desired.
- The site should be located in fully developed locality.
- The site should be located in such a way that community services like police and fire protection and means of transport also available.
- Get the site selected.
- Area of plot should be such that the building constructed on it meets authority.

the requirement of the client.

- Shape & size of the plot should not be irregular.
- The site should be situated on levelled ground & also levelled with the uniform slopes from one end to the other to provide the good drainage of rainwater.
- The site should be situated in a naturally beautiful environment which creates healthy living and working conditions.
- The site should be away from quarries, factories, sludge, etc.
- The legal and financial aspects should also be given due consideration.

2. Cement: Cement is the mixture of calcareous, crystalline and other substances. Cement is used as the binding material.

Uses of cement are as follows:

- Cement slurry is used for filling cracks in concrete structures.
- Cement is used to manufacture telephone post, railway sleepers, lamp post, etc.
- White and coloured cement are used for imparting colour and finish to floors, panels and exterior surfaces of buildings.
- Cement concrete is used for construction of structures of buildings, bridges, etc.

③ Storage of waste: It is classified as:

- ① Municipal solid waste
- ② Hazardous solid waste

④ Effect of solid waste management: Due to this the collected waste gets heap up and becomes a problem for both the environment and also for the public.

⑤ Types of soil are as follows:

- ① Glacial soil: Formed by transportation & deposition of glaciers.
- ② Alluvial soil: Transported by running water.
- ③ Eolian soil: Formed by deposition in desert.
- ④ Marine soil: Formed by deposition in the seas.
- ⑤ Pedon soil: Transported & deposited by wind.
- ⑥ Colluvial soil: Formed by movement of soil from its original place by gravity, such as during the landslide.

6. Causes of failure of structures are as follows:

- ① External cause like accident, earthquake, flood & fire.
- ② Weathering, deterioration of structure.
- ③ Lack of maintenance.
- ④ Underestimating the loads.
- ⑤ Wrong design.

⑥ Cement mortar is used for plastering and pointing.

⑦ Types of Cement:

- ① Air entraining cement
- ② Coloured cement
- ③ White cement
- ④ Air entraining cement: This cement is produced by making a small amount of air entraining agent.
- ⑤ Coloured cement: It consists of ordinary Portland cement with a color pigment of coloring.
- ⑥ White cement: The colour of this cement is white & it has same properties of ordinary Portland cement.

4. (a) The term solid waste management mainly refers to the complete process of collecting, treating and disposing of solid waste. In the waste management process, the wastes are collected from different sources & are disposed off. This process includes collection, transportation & disposal of waste.

It needs to be monitored so that guidelines should be followed:

- ① Sources of solid waste:
  - ① Solid domestic garbage
  - ② Solid agricultural waste
  - ③ Construction waste
  - ④ Waste material from industries

① Solar energy: The earth surface receives energy from sun in the form of EM radiation. This energy is called solar energy. Which is stored deeper than earth's surface in the form of fossil fuels.

② Wind Energy: Wind energy is produced by the uneven heating of earth's surface by the sun. As the sun warms the earth's surface the atmosphere warms too. Warm air which rises then from the field air rises then cool air moves in & and so on. This movement of air is what moves the wind blades.

③ Tidal Energy: Tides are the rise & fall of sea level caused by the combined effect of the gravitational forces exerted by the moon & the sun & the rotation of the earth.

④ Biomass Energy: Biomass is an organic material that comes from plants & animals and it is renewable source of energy. When the biomass is burned, the chemical energy in biomass is released as heat.

10. (b) Braking system: Braking system is the mechanism in the motor vehicle which is used to slow down and stopping the vehicle to rest in the shortest possible distance.

# principle of braking system: While operating the braking system

(b) Types of repair and rehabilitation are as follows:

- ① Column & micro-piling: Column jacking is one of the techniques used to improve or increase the capacity of weakened concrete column. jacking is a technique used to increase the strength of the beam and column. jacking is particularly used for repair of columns and piers. The method is applicable for detecting concrete steel reinforcement deterioration.
- ② Patch: This is the most common technique to repair corrosion damage in RC structures. For a patch repair the concrete bars is typically removed to approximately 25mm from the steel bars and a repair material is installed. For a structure under repair steel is usually protected by the corrosion. base & surface are removed preferably all around the bar using abrasive tools or sand-blasting and stabilized. Part of the repair material is applied over the bars such as alkali cement mortar or concrete repair mortar for fine brick mortar.

① Solar energy: The earth surface receives energy from sun in the form of EM radiation. This energy is called solar energy. Which is stored deeper than earth's surface in the form of fossil fuels.

② Wind Energy: Wind energy is produced by the uneven heating of earth's surface by the sun. As the sun warms the earth's surface the atmosphere warms too. Warm air which rises then from the field air rises then cool air moves in & and so on. This movement of air is what moves the wind blades.

③ Tidal Energy: Tides are the rise & fall of sea level caused by the combined effect of the gravitational forces exerted by the moon & the sun & the rotation of the earth.

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10. (b) Braking system: Braking system is the mechanism in the motor vehicle which is used to slow down and stopping the vehicle to rest in the shortest possible distance.

# principle of braking system: While operating the braking system



the E of moving vehicle is converted into heat energy.  
A function of cooling system are as follows:-  
① It is used to stop vehicle in the shorter possible time.  
② It is used to control the speed while it is in gear.  
③ It is used to control vehicle while descending along slope.

④ Casting:-  
It is a manufacturing process in which a liquid material is usually poured into a mold, which contains a hollow cavity of the desired shape, and then allowed to solidify.

# Types of casting:  
Following are the basic types of casting:-  
① Sand casting      ② Shell mold casting  
③ Die casting      ④ Permanent mold casting  
⑤ Investment casting      ⑥ Salt-titanium casting  
⑦ Centrifugal casting

# Application:-  
① Gear box casting      ② Turbo blade  
③ Piston tool bed      ④ Pump casing  
⑤ Machine tool frames

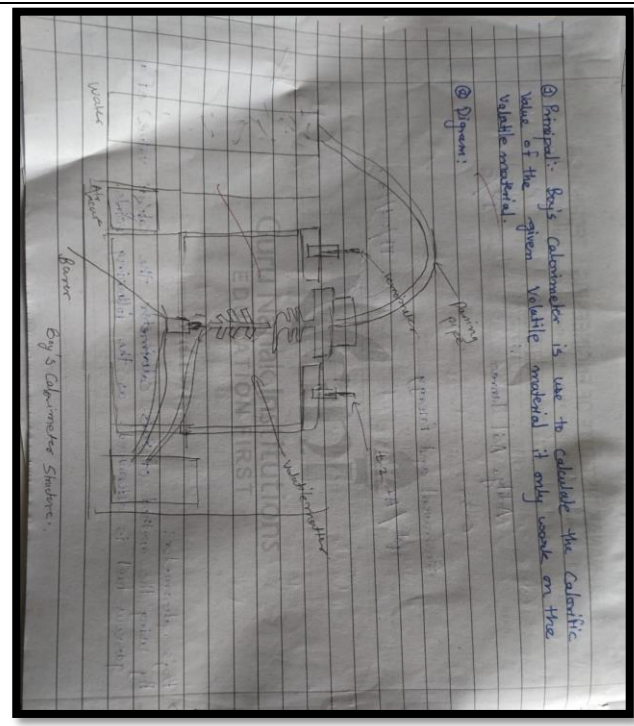
(a) Advantages of 3D printing are as follows:-  
① speed of the 3D printing is much faster than traditional manufacturing methods. It can be used to produce a part in a few hours. The advantages of this is the rapid verification & development of design ideas.  
② single step manufacturing: one of the biggest concerns for 3D printing is how to manufacture a large number of manufacturing parts to be produced by 3D printing technology. The extra steps to be produced by 3D printing technology. The extra steps to be produced by 3D printing technology. The extra steps to be produced by 3D printing technology.  
③ risk mitigation: ordering of faulty prototypes faster than designers time & money. Even minor changes in a model or fabrication method may have a large financial impact.  
④ sustainability: sustainable manufacturing methods, such as 3D printing or turning, remove a significant amount of material from an initial block, resulting in high volume of waste material.

**MAIN ANSWER SHEET**

1. Name of the Student: Adhya Anil Tanwar  
2. College Roll No.: 6-33  
3. Subject: Environment and Energy  
4. Sem/ Branch: 3rd / AE  
5. Year / Section: 1st / C  
6. Enrollment No.:  
7. Date: 11/02/22

Q. No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											14

→ Boys Calorimeter:  
By using the method of Boys Calorimeter the calorific value of a gaseous fuel is determined as the following points.



Sublimation: ...

Due to the unique structure of the Bose-Einstein condensate, it exhibits the value of  $\lambda$  which is less than  $\lambda_{dB}$ . The initial temperature and the final temperature due to that and the water condensing through the volatile medium and the heat produced by the burner comes in the vacuum chamber and the caloric value is determined.

Formulas:  
Boyle's scientific value

$$P_1 V_1 = P_2 V_2$$

where:  $P_1$  = initial pressure,  $V_1$  = initial volume,  $P_2$  = final pressure,  $V_2$  = final volume.

$$N.C.V = \frac{G.C.V - m}{V} = \frac{587}{V}$$

where,  $m$  = mass,  $V$  = volume,  $587$  = (heat heat)

Evaporation: The process of evaporation occurs due to the solar energy and the process is as follows:

- When the solar rays from sun fall towards the earth surface and water surface they get heated.
- When the water gets heated, it starts to evaporate.
- It is the best example of rise in temperature and change in state.
- The liquid form of the water due to heat gets changed into the gas form and that the process of evaporation.
- The change in the state of water to gas is known as the evaporation.
- This process mostly happens at the oceans, river and many places when the directly sun rays get more affected.

Condensation: In this form the same condition happens but now it is reversed in the gas state to the liquid state. The process is as follows:

- The gas made from the water gas towards the atmosphere and when it goes up, specific distance of height it starts cooling and condensing.
- It will material get spread into the sky and due to the low temperature the water in gas form gets transformed into the liquid form and some heat transfer to us as in the form of rain.

This process changes the liquid form from the gas form of the matter.

Given:

$$\Delta T = 25^\circ C \text{ to } 75^\circ C \text{ i.e. } 15^\circ C - 25^\circ C = 5^\circ C$$

$$m = 20 \text{ g}$$

$$c = 200 \text{ cal/g}^\circ C$$

$$Q = ?$$

To find: Specific heat i.e.  $q$

Formula:  $Q = mc\Delta T$

Soln: -

$$Q = mc\Delta T$$

$$= 20 \times 200 \times 5$$

$$= 400 \times 50$$

$$= 20000 \text{ kcal}$$

The specific heat of the body is  $20000 \text{ kcal}$ .

OR  $2 \times 10^4 \text{ cal/g}^\circ C$



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Q.3

① Non-conventional energy sources  
 The Non-conventional energy source is also known as the Renewable energy source. It is one of the best of the energy sources.

② Their are types of Renewable energy sources

- 1) solar energy
- 2) hydro power
- 3) geothermal energy
- 4) biomass energy
- 5) tidal energy

③ solar energy: It is obtain from the solar energy as sun rays produce energy. It is obtain from water.

④ hydro power: It is obtain from water.

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Nagpur

MAIN ANSWER SHEET

1. Name of the Student: Aditi A. Kholagale 5. Year/Section: 4<sup>th</sup> C

2. College Roll No.: 1

3. Subject: Communication Skill 6. Examinee No.:

4. Semi Exam: ETC 7. Date: 18/6/23

Q.I. No.	1	2	3	4	5	6	7	8	9	10	Total
Marks Obtained											

Q. 3)

① → Communication is the word formed from Latin word 'Communic' & 'Communication'. Communication is the process in which thoughts of information, ideas, & something the thoughts, etc. It is called as communication. Communication is the process in which two persons share their idea or within communication also.

② Sensitive heat: In Sensitive heat the temperature of the material or substance get change but the state of the material remain same.

ex: boiling of water. All boiling point.

③ Latent heat: The temperature of water keep changing but it always remain in the liquid state. It is called as latent heat. It is similarly opposite to the Sensitive heat.

ex: Any solid changing matter without heat there is no change in temperature. Any matter which change its state without any matter which change its state without any matter which change its temperature is called the latent heat.

Communication cycle

```

  graph LR
    Sender[Sender] -->|Encoding| Receiver[Receiver]
    Receiver -->|Decoding| Sender
    Receiver -->|Feedback| Sender
  
```

1) Sender - The person who shares the thoughts, ideas to the other person. The sender is also share the thought in same language so understand properly to the other person.

2) Encoding - The person who encodes the message as we can say encode the message send as the sender but it encode the message generally.

3) Receiver - The receiver who receives the message send by the sender. The thought & ideas & also sometime imagination. Receiver is person who need to give the feedback to the sender.





## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session: 2021-22)

sec A

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
Dahegaon, Kalmeshwar Road, Nagpur-441 501.  
GNICT/2021-2022/ODD/ BESI-ST /BCME/DB  
Second Sessional Test (2021-22)

Paper Set: A  
Subject Name: BCME  
Time: - 2:00 pm - 3:00 pm (1 Hours)

Date of Exam: -15/03/22  
Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.: A & B  
Max. Marks: - 20 M

Name of Student: Aastha R. Raulkara Section: A  
College Roll No. 01 Branch ETC

**INSTRUCTIONS TO CANDIDATE:**  
1) All questions carry 1 marks.  
2) Solve ALL questions as follows:

1. The detention period for plain sedimentation water tanks, is usually  
(A) 4 to 8 hours (B) 8 to 16 hours  
(C) 16 to 24 hours (D) 24 to 36 hours  
ANS: D) 24 to 36 hours

2. Pick up the correct statement from the following:  
(A) Lime may be used to soften the hard water  
(B) Excessive use of lime may kill the bacterias  
(C) Excessive lime when added to water, raises its pH value  
(D) All the above  
ANS: D) All the above

3. Hardness of water can be removed by boiling if it is due to  
(A) Calcium bicarbonates (B) Calcium sulphates  
(C) Calcium chloride (D) Calcium nitrates  
ANS: A) calcium bicarbonates

4. Hardness of water is caused by  
(A) Presence of soap lather  
(B) Presence of chlorides and sulphates of sodium and potassium  
(C) Presence of bicarbonates, sulphates or chlorides of calcium and magnesium  
(D) Turbidity  
ANS: D) presence of bicarbonates, sulphate or chlorides of calcium & magnesium

5. Permanent hardness of water can be removed by  
(A) Adding alum (B) Adding lime  
(C) Adding chlorine (D) Zeolite process  
ANS: D) zeolite process

6. Disinfection of water with ozone is not good because  
(A) It vanishes before water reaches the consumers  
(B) It removes the color, taste and odour from water as bacterias  
(C) It adds taste to the water  
(D) It is more efficient than chlorine in killing bacterias  
ANS: D) It is more efficient than chlorine in killing bacterias.

7. The efficiency of sedimentation tank does not depend upon  
(A) Depth of tank (B) Length of tank  
(C) Detention period (D) Velocity of water  
ANS: D) velocity of water

8. Hard water contains  
(A) Calcium (B) Magnesium bicarbonates  
(C) Magnesium sulphate (D) All the above  
ANS: D) All the above

9. Water supply system includes  
(A) Digging a well for water (B) Construction of dams  
(C) Construction of canals (D) Entire arrangement from source to distribution  
ANS: D) Entire arrangement from source to distribution.

18  
20



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Sec A

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Dahegaon, Kalmeshwar Road, Nagpur-441 501  
GNIET/2021-2022/ODD/ BES1-5T /BCME/DB  
Second Sessional Test (2021-22)

Paper Set: A  
Subject Name: BCME  
Time: - 2:00 pm - 3:00 pm (1 Hours)

Date of Exam:-15/03/22  
Year/Sem: 1<sup>st</sup> /1<sup>st</sup> Sec.- A & B  
Max. Marks: - 20 M

Name of Student: Aastha R. Raulkara Section: A  
College Roll No. 01 Branch ETC

**INSTRUCTIONS TO CANDIDATE:**  
1) All questions carry 1 marks.  
2) Solve ALL questions as follows:

1. The detention period for plain sedimentation water tanks, is usually  
(A) 4 to 8 hours (B) 8 to 16 hours  
(C) 16 to 24 hours (D) 24 to 36 hours  
ANS: D) 24 to 36 hours

2. Pick up the correct statement from the following:  
(A) Lime may be used to soften the hard water  
(B) Excessive use of lime may kill the bacterias  
(C) Excessive lime when added to water, raises its pH value  
(D) All the above  
ANS: D) All the above

3. Hardness of water can be removed by boiling if it is due to  
(A) Calcium bicarbonates (B) Calcium sulphates  
(C) Calcium chloride (D) Calcium nitrates  
ANS: A) Calcium bicarbonates

4. Hardness of water is caused by  
(A) Presence of soap lather  
(B) Presence of chlorides and sulphates of sodium and potassium  
(C) Presence of bicarbonates, sulphates or chlorides of calcium and magnesium  
(D) Turbidity  
ANS: D) Presence of bicarbonates, sulphate or chlorides of calcium & magnesium

5. Permanent hardness of water can be removed by  
(A) Adding alum (B) Adding lime  
(C) Adding chlorine (D) Zeolite process  
ANS: D) zeolite process

6. Disinfection of water with ozone is not good because  
(A) It vanishes before water reaches the consumers  
(B) It removes the color, taste and odour from water as bacterias  
(C) It adds taste to the water  
(D) It is more efficient than chlorine in killing bacterias  
ANS: D) It is more efficient than chlorine in killing bacterias.

7. The efficiency of sedimentation tank does not depend upon  
(A) Depth of tank (B) Length of tank  
(C) Detention period (D) Velocity of water  
ANS: D) velocity of water

8. Hard water contains  
(A) Calcium (B) Magnesium bicarbonates  
(C) Magnesium sulphate (D) All the above  
ANS: D) All the above

9. Water supply system includes  
(A) Digging a well for water (B) Construction of dams  
(C) Construction of canals (D) Entire arrangement from source to distribution  
ANS: D) Entire arrangement from source to distribution.

18  
20



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Sec A

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
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GNICT/2021-2022/ODD/ BES1-ST /BCME/DB  
Second Sessional Test (2021-22)

Paper Set: A  
Subject Name: BCME  
Time: - 2:00 pm - 3:00 pm (1 Hours)

Date of Exam: -15/03/22  
Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.- A & B  
Max. Marks: - 20 M

Name of Student: Aastha R. Raulkara Section: A  
College Roll No. 01 Branch ETC

**INSTRUCTIONS TO CANDIDATE:**  
1) All questions carry 1 marks.  
2) Solve ALL questions as follows:

1. The detention period for plain sedimentation water tanks, is usually  
(A) 4 to 8 hours (B) 8 to 16 hours  
(C) 16 to 24 hours (D) 24 to 36 hours  
ANS: D) 24 to 36 hours

2. Pick up the correct statement from the following:  
(A) Lime may be used to soften the hard water  
(B) Excessive use of lime may kill the bacterias  
(C) Excessive lime when added to water, raises its pH value  
(D) All the above  
ANS: D) All the above

3. Hardness of water can be removed by boiling if it is due to  
(A) Calcium bicarbonates (B) Calcium sulphates  
(C) Calcium chloride (D) Calcium nitrates  
ANS: A) calcium bicarbonates

4. Hardness of water is caused by  
(A) Presence of soap lather  
(B) Presence of chlorides and sulphates of sodium and potassium  
(C) Presence of bicarbonates, sulphates or chlorides of calcium and magnesium  
(D) Turbidity  
ANS: D) Presence of bicarbonates, sulphate or chlorides of calcium & magnesium

5. Permanent hardness of water can be removed by  
(A) Adding alum (B) Adding lime  
(C) Adding chlorine (D) Zeolite process  
ANS: D) zeolite process

6. Disinfection of water with ozone is not good because  
(A) It vanishes before water reaches the consumers  
(B) It removes the color, taste and odour from water as bacterias  
(C) It adds taste to the water  
(D) It is more efficient than chlorine in killing bacterias  
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7. The efficiency of sedimentation tank does not depend upon  
(A) Depth of tank (B) Length of tank  
(C) Detention period (D) Velocity of water  
ANS: D) velocity of water

8. Hard water contains  
(A) Calcium (B) Magnesium bicarbonates  
(C) Magnesium sulphate (D) All the above  
ANS: D) All the above

9. Water supply system includes  
(A) Digging a well for water (B) Construction of dams  
(C) Construction of canals (D) Entire arrangement from source to distribution  
ANS: D) Entire arrangement from source to distribution.

18  
20



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Dahegaon, Kalmeshwar Road, Nagpur-441 501.  
GNIET/2021-2022/ODD/ BES1-5T /BCME/DB  
Second Sessional Test (2021-22)

16  
20

Paper Set: B  
Subject Name: BCME  
Time: - 2:00 pm - 3:00 pm (1 Hours)

Date of Exam: -15/03/22  
Year/Sem: 1<sup>st</sup> /1<sup>st</sup> Sec:- A & B  
Max. Marks: - 20 M

Name of Student: Achal G. Kalambe Section: A  
College Roll No. 02 Branch FTC

**INSTRUCTIONS TO CANDIDATE:**  
1) All questions carry 1 marks.  
2) Solve ALL questions as follows:

01. Bio-medical waste can be effectively managed by the thermal process.  
a) True b) False  
ANS: a)

02. The WHO has classified the bio-medical waste into \_\_\_\_\_ categories.  
a) 5 b) 4  
c) 3 d) 2  
ANS: c) 3

03. Which gas produced in open dumps from the decomposition of biodegradable waste?  
a) Ethane b) Methane  
c) Propene d) Ethene  
ANS: b) methane

04. Which is the latest version of AutoCAD software?  
a) 2016 b) 2017  
c) 2018 d) 2019  
ANS: c)

05. AutoCAD was first released in the year:  
a) 1858 b) 1966  
c) 1898 d) 1982  
ANS: d)

06. The cast iron pipes for water supply system are used for  
a) Durability b) Strength  
c) Easy connection d) All the above  
ANS: d)

07. How many units are available in AutoCAD?  
a) 4 b) 5  
c) 7 d) 6  
ANS: b) 5

08. How many workspaces are available in AutoCAD?  
a) 2 b) 4  
c) 3 d) 5  
ANS: c) 3

09. To obtain parallel lines, concentric circles and parallel curves; \_\_\_\_\_ is used.  
a) Array b) Fillet  
c) Copy d) Offset  
ANS: d) offset





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Second Sessional Test (2021'22)

16  
20

Paper Set: B  
Subject Name: BCME  
Time: - 2:00 pm - 3:00 pm (1 Hours)

Date of Exam:-15/03/22  
Year/Sem: 1<sup>st</sup> /1<sup>st</sup> Sec:- A & B  
Max. Marks: - 20 M

Name of Student: Achal G. Kalambe Section: A  
College Roll No. 02 Branch ETC

**INSTRUCTIONS TO CANDIDATE:**  
1) All questions carry 1 marks.  
2) Solve ALL questions as follows:

01. Bio-medical waste can be effectively managed by the thermal process.  
a) True b) False  
ANS: a)

02. The WHO has classified the bio-medical waste into \_\_\_\_\_ categories.  
a) 5 b) 4  
c) 3 d) 2  
ANS: c) 3

03. Which gas produced in open dumps from the decomposition of biodegradable waste?  
a) Ethane b) Methane  
c) Propene d) Ethene  
ANS: b) methane

04. Which is the latest version of AutoCAD software?  
a) 2016 b) 2017  
c) 2018 d) 2019  
ANS: c)

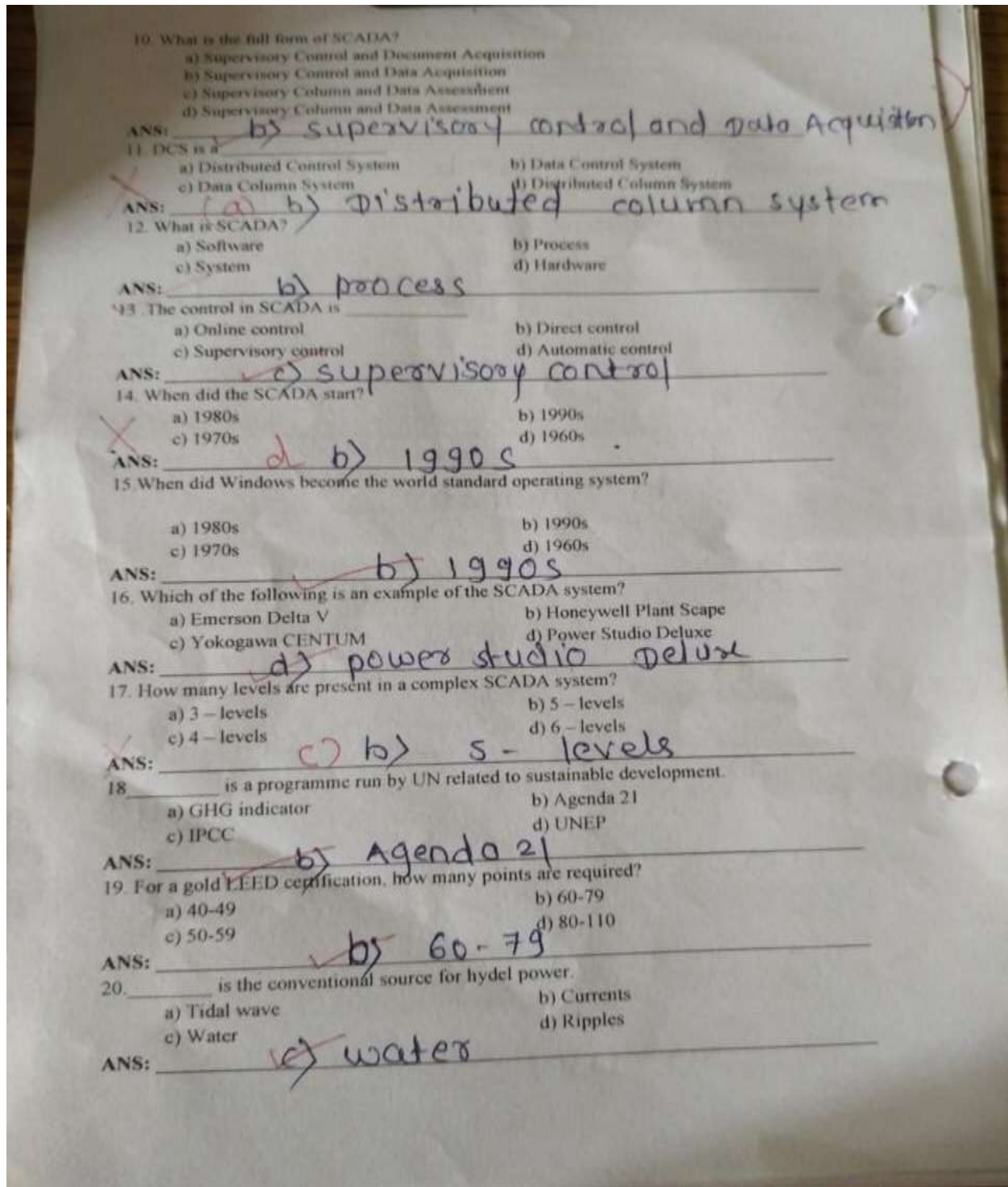
05. AutoCAD was first released in the year:  
a) 1858 b) 1966  
c) 1898 d) 1982  
ANS: d)

06. The cast iron pipes for water supply system are used for  
a) Durability b) Strength  
c) Easy connection d) All the above  
ANS: d)

07. How many units are available in AutoCAD?  
a) 4 b) 5  
c) 7 d) 6  
ANS: b) 5

08. How many workspaces are available in AutoCAD?  
a) 2 b) 4  
c) 3 d) 5  
ANS: c) 3

09. To obtain parallel lines, concentric circles and parallel curves; \_\_\_\_\_ is used.  
a) Array b) Fillet  
c) Copy d) Offset  
ANS: d) offset





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GNIET/2021-2022/ODD/ BES1-ST /BCME/DB  
Second Sessional Test (2021-22)

17  
20

Paper Set: A Date of Exam: -15/03/22  
Subject Name: BCME Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.- A & B  
Time: - 2.00 pm - 3.00 pm (1 Hours) Max. Marks: - 20 M

Name of Student: Bipasha Yadav Section: A  
College Roll No. 4 Branch CSE

**INSTRUCTIONS TO CANDIDATE:**  
1) All questions carry 1 marks.  
2) Solve ALL questions as follows:

1. The detention period for plain sedimentation water tanks, is usually  
(A) 4 to 8 hours (B) 8 to 16 hours  
(C) 16 to 24 hours (D) 24 to 36 hours  
ANS: 24 to 36 hours

2. Pick up the correct statement from the following:  
(A) Lime may be used to soften the hard water  
(B) Excessive use of lime may kill the bacterias  
(C) Excessive lime when added to water, raises its pH value  
(D) All the above  
ANS: Excessive use of lime may kill the bacterias

3. Hardness of water can be removed by boiling if it is due to  
(A) Calcium bicarbonates (B) Calcium sulphates  
(C) Calcium chloride (D) Calcium nitrates  
ANS: Calcium bicarbonates

4. Hardness of water is caused by  
(A) Presence of soap lather  
(B) Presence of chlorides and sulphates of sodium and potassium  
(C) Presence of bicarbonates, sulphates or chlorides of calcium and magnesium  
(D) Turbidity  
ANS: Presence of bicarbonates, sulphates or chlorides of calcium and magnesium

5. Permanent hardness of water can be removed by  
(A) Adding alum (B) Adding lime  
(C) Adding chlorine (D) Zeolite process  
ANS: Zeolite process

6. Disinfection of water with ozone is not good because  
(A) It vanishes before water reaches the consumers  
(B) It removes the color, taste and odour from water as bacterias  
(C) It adds taste to the water  
(D) It is more efficient than chlorine in killing bacterias  
ANS: It is more efficient than chlorine in killing bacterias

7. The efficiency of sedimentation tank does not depend upon  
(A) Depth of tank (B) Length of tank  
(C) Detention period (D) Velocity of water  
ANS: Velocity of water

8. Hard water contains  
(A) Calcium (B) Magnesium bicarbonates  
(C) Magnesium sulphate (D) All the above  
ANS: Calcium

9. Water supply system includes  
(A) Digging a well for water (B) Construction of dams  
(C) Construction of canals (D) Entire arrangement from source to distribution  
ANS: Entire arrangement from source to distribution



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Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



10. The best process of disinfection of public water supply, is by  
 (A) Boiling  (B) Chlorination  
 (C) Adding lime  (D) Adding ozone  
ANS: Chlorination

11. For controlling algae, the most commonly used chemical, is  
 (A) Copper sulphate  (B) Alum  
 (C) Lime  (D) Bleaching powder  
ANS: Alum

12. The bacteria which may survive with or without free oxygen, are called  
 (A) Aerobic bacteria  (B) Anaerobic bacteria  
 (C) Facultative bacteria's  (D) None of these  
ANS: Facultative bacteria's

13. Aeration of water is done to remove  
 (A) Odour  (B) Color  
 (C) Bacteria  (D) Turbidity  
ANS: Odour

14. May not contain much impurity if its source is  
 (A) Reservoirs  (B) Stream flowing in plains  
 (C) Lakes in lower regions  (D) Spring along hill slopes  
ANS: Spring along hill slopes

15. Turbidity of water is expressed  
 (A) In ppm  (B) In numbers in an arbitrary scale  
 (C) By pH value  (D) By color code  
ANS: In ppm

16. At break point of chlorination,  
 (A) Chlorine is used to oxidize  (B) Residual chloride is zero  
 (C) Residual chloride is maximum  (D) Residual chlorine reappears  
ANS: Residual chlorine reappears

17. By boiling water, hardness can be removed if it is due to  
 (A) Calcium sulphate  (B) Magnesium sulphate  
 (C) Calcium nitrate  (D) Calcium bicarbonate  
ANS: Calcium bicarbonate

18. The type of pipe commonly used in water supply distribution schemes, is  
 (A) R.C.C. pipes  (B) Hume pipes  
 (C) Cast iron pipes  (D) G.I. pipes  
ANS: Cast iron pipes

19. Acidity in water is caused due to  
 (A) Mineral acids  (B) Free CO<sub>2</sub>  
 (C) Iron sulphate  (D) All the above  
ANS: All the above

20. How many major sources of solid waste are there based on their origin?  
 (A) 10  (B) 5  
 (C) 9  (D) 6  
ANS: 9



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GNIET/2021-2022/ODD/ BES1-5T /BCME/DB  
Second Sessional Test (2021-22)

HP  
20

Paper Set: B  
Subject Name: BCME  
Time: - 2:00 pm - 3:00 pm (1 Hours)

Date of Exam:-15/03/22  
Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.- A & B  
Max. Marks: - 20 M

Name of Student: Dipali G. Wagb.

Section: [A]

College Roll No. [06]

Branch CSE

**INSTRUCTIONS TO CANDIDATE:**

- 1) All questions carry 1 marks.
- 2) Solve ALL questions as follows:

01. Bio-medical waste can be effectively managed by the thermal process.  
a) True b) False

ANS: a] True

02. The WHO has classified the bio-medical waste into \_\_\_\_\_ categories.  
a) 5 b) 4  
c) 3 d) 2

ANS: c] 3 (b)

03. Which gas produced in open dumps from the decomposition of biodegradable waste?  
a) Ethane b) Methane  
c) Propene d) Ethene

ANS: b] methane

04. Which is the latest version of AutoCAD software?  
a) 2016 b) 2017  
c) 2018 d) 2019

ANS: c] 2018

05. AutoCAD was first released in the year:  
a) 1858 b) 1966  
c) 1898 d) 1982

ANS: d] 1982

06. The cast iron pipes for water supply system are used for  
a) Durability b) Strength  
c) Easy connection d) All the above

ANS: d] All the above

07. How many units are available in AutoCAD?  
a) 4 b) 5  
c) 7 d) 6

ANS: b] 5

08. How many workspaces are available in AutoCAD?  
a) 2 b) 4  
c) 3 d) 5

ANS: b] 4 (c)

09. To draw parallel lines, concentric circles and parallel curves: \_\_\_\_\_ is used.



10. What is the full form of SCADA?  
a) Supervisory Control and Document Acquisition  
b) Supervisory Control and Data Acquisition  
c) Supervisory Column and Data Assessment  
d) Supervisory Column and Data Assessment  
ANS: b) data control system

11. DCS is a \_\_\_\_\_  
a) Distributed Control System  
b) Data Control System  
c) Data Column System  
d) Distributed Column System  
ANS: b) data control system

12. What is SCADA?  
a) Software  
b) Process  
c) System  
d) Hardware  
ANS: b) process

13. The control in SCADA is \_\_\_\_\_  
a) Online control  
b) Direct control  
c) Supervisory control  
d) Automatic control  
ANS: c) supervisory control

14. When did the SCADA start?  
a) 1980s  
b) 1990s  
c) 1970s  
d) 1960s  
ANS: d) 1960s

15. When did Windows become the world standard operating system?  
a) 1980s  
b) 1990s  
c) 1970s  
d) 1960s  
ANS: b) 1990s

16. Which of the following is an example of the SCADA system?  
a) Emerson Delta V  
b) Honeywell Plant Scape  
c) Yokogawa CENTUM  
d) Power Studio Deluxe  
ANS: d) power studio deluxe

17. How many levels are present in a complex SCADA system?  
a) 3 - levels  
b) 5 - levels  
c) 4 - levels  
d) 6 - levels  
ANS: c) 4 - levels

18. \_\_\_\_\_ is a programme run by UN related to sustainable development.  
a) GHG indicator  
b) Agenda 21  
c) IPCC  
d) UNEP  
ANS: b) Agenda 21

19. For a gold LEED certification, how many points are required?  
a) 40-49  
b) 60-79  
c) 50-59  
d) 80-110  
ANS: b) 60-79

20. \_\_\_\_\_ is the conventional source for hydel power.  
a) Tidal wave  
b) Currents  
c) Water  
d) Ripples



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Second Sessional Test (2021-22)

3/20

Paper Set: A  
Subject Name: BCME  
Time: - 2:00 pm - 3:00 pm (1 Hours)

Date of Exam:-15/03/22  
Year/Sem: 1<sup>st</sup> /1<sup>st</sup> Sec:- A & B  
Max. Marks: - 20 M

Name of Student: Harsha Bhimle Section: A  
College Roll No. 8 Branch CSE

**INSTRUCTIONS TO CANDIDATE:**  
1) All questions carry 1 marks.  
2) Solve ALL questions as follows:

1. The detention period for plain sedimentation water tanks, is usually  
(A) 4 to 8 hours (B) 8 to 16 hours  
(C) 16 to 24 hours (D) 24 to 36 hours  
ANS: 24 to 36 hours

2. Pick up the correct statement from the following:  
(A) Lime may be used to soften the hard water  
(B) Excessive use of lime may kill the bacterias  
(C) Excessive lime when added to water, raises its pH value  
(D) All the above  
ANS: All the above

3. Hardness of water can be removed by boiling if it is due to  
(A) Calcium bicarbonates (B) Calcium sulphates  
(C) Calcium chloride (D) Calcium nitrates  
ANS: Calcium sulphates

4. Hardness of water is caused by  
(A) Presence of soap lather  
(B) Presence of chlorides and sulphates of sodium and potassium  
(C) Presence of bicarbonates, sulphates or chlorides of calcium and magnesium  
(D) Turbidity  
ANS: presence of bicarbonates, sulphates or chlorides of calcium and magnesium

5. Permanent hardness of water can be removed by  
(A) Adding alum (B) Adding lime  
(C) Adding chlorine (D) Zeolite process  
ANS: Adding Chlorine

6. Disinfection of water with ozone is not good because  
(A) It vanishes before water reaches the consumers  
(B) It removes the color, taste and odour from water as bacterias  
(C) It adds taste to the water  
(D) It is more efficient than chlorine in killing bacterias  
ANS: It adds taste to the water

7. The efficiency of sedimentation tank does not depend upon  
(A) Depth of tank (B) Length of tank  
(C) Detention period (D) Velocity of water  
ANS: depth of tank & velocity of water

8. Hard water contains  
(A) Calcium (B) Magnesium bicarbonates  
(C) Magnesium sulphate (D) All the above  
ANS: All the above

9. Water supply system includes  
(A) Digging a well for water (B) Construction of dams



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10. The best process of disinfection of public water supply, is by  
(A) Boiling (B) Chlorination  
(C) Adding lime (D) Adding ozone  
ANS: Chlorination

11. For controlling algae, the most commonly used chemical, is  
(A) Copper sulphate (B) Alum  
(C) Lime (D) Bleaching powder  
ANS: Copper sulphate

12. The bacteria which may survive with or without free oxygen, are called  
(A) Aerobic bacteria (B) Anaerobic bacteria  
(C) Facultative bacteria's (D) None of these  
ANS: None of these (C)

13. Aeration of water is done to remove  
(A) Odour (B) Color  
(C) Bacteria (D) Turbidity  
ANS: Bacteria (A)

14. May not contain much impurity if its source is  
(A) Reservoirs (B) Stream flowing in plains  
(C) Lakes in lower regions (D) Spring along hill slopes  
ANS: Stream flowing in plains (A)

15. Turbidity of water is expressed  
(A) In ppm (B) In numbers in an arbitrary scale  
(C) By pH value (D) By color code  
ANS: In ppm

16. At break point of chlorination,  
(A) Chlorine is used to oxidize (B) Residual chloride is zero  
(C) Residual chloride is maximum (D) Residual chlorine reappears  
ANS: Chlorine is used to oxidize (A)

17. By boiling water, hardness can be removed if it is due to  
(A) Calcium sulphate (B) Magnesium sulphate  
(C) Calcium nitrate (D) Calcium bicarbonate  
ANS: Calcium nitrate (D)

18. The type of pipe commonly used in water supply distribution schemes, is  
(A) R.C.C. pipes (B) Hume pipes  
(C) Cast iron pipes (D) G.I. pipes  
ANS: G.I pipes (C)

19. Acidity in water is caused due to  
(A) Mineral acids (B) Free CO<sub>2</sub>  
(C) Iron sulphate (D) All the above  
ANS: All the above

20. How many major sources of solid waste are there based on their origin?  
(A) 10 (B) 5  
(C) 9 (D) 6  
ANS: 10 (C)







## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session 2022-23)

### INTERNAL EXAMINATION

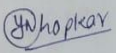
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Dahegaon, Kalmeshwar Road, Nagpur   
Department of Applied Sciences & Humanities  
(B. Tech. First Year)  
Session: 2022-2023 (EVEN) Date - 14-06-2023

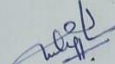
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
**PRE UNIVERSITY EXAM NOTICE**  
(B. Tech. SECOND SEMESTER)


All the Faculties of First Year B. Tech. (Semester-II) are hereby informed that they have to submit question paper of their respective subject for the PUT Exam which is to be scheduled from 23/06/2023 to 04/07/2023 on or before Thursday, 22 June 2023 and also send to yashrajchopkar@yahoo.co.in.

**Note:** 1. Format of question paper will as per University Paper Pattern  
2. Question Paper covered all syllabus.



 Exam In charge  
In-Charge  
Sessional Exam  
G.N.I.E.T., Nagpur

 HOD  
HOD  
Department of Applied  
Science & Humanities  
GNIET Nagpur

 Vice-Principal

 Principal

Copy To:-  
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2. Circulation among Students.  
3. Notice Board.

 **GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Dahegaon, Kalmeshwar Road, Nagpur   
Department of Applied Sciences & Humanities  
(B. Tech. First Year)  
Session: 2022-2023 (EVEN) Date - 14-06-2023

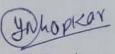
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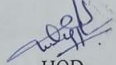
**PRE UNIVERSITY EXAM NOTICE**  
(B. Tech. FIRST SEMESTER)


All the Student of First Year B. Tech. (Semester-II) are hereby informed that the PUT Exam is to be scheduled from 23/06/2023 to 04/07/2023 & Time Table has been displayed on the Notice Board.

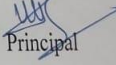
**Instruction of PUT Examination SUMMER 2023**

- Theory Exam time will be 3 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.
- Students must clear the balance fees, before attending the PUT examination.

 Exam In charge  
Sessional Exam  
G.N.I.E.T., Nagpur

 HOD  
HOD  
Department of Applied  
Science & Humanities  
GNIET Nagpur

 Vice-Principal

 Principal

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 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2022-2023 (EVEN)

Date: 14/06/2023

**Semester – II  
 PUT Time Table**

Sr. No.	Date	Day	Time	Paper	Section
01	23-06-2023	Friday	01.30 pm to 04.30 pm	MATHEMATICS-II	A, B, C, D
02	26-06-2023	Monday	01.30 pm to 04.30 pm	ADVANCED ENGINEERING MATERIALS	A, B, C, D
03	27-06-2023	Tuesday	02.00 pm to 04.00 pm	INDIAN CULTURE & CONSTITUTION	A, B
				ENGINEERING MECHANICS	C, D
04	28-06-2023	Wednesday	02.00 pm to 05.00 pm	APPLIED CHEMISTRY	A, B, C, D
05	30-06-2023	Friday	10.30 am to 12.30 pm	ENGINEERING MECHANICS	A, B
				INDIAN CULTURE & CONSTITUTION	C, D
06	03-07-2023	Monday	02.00 pm to 04.00 pm	BASICS OF ELECTRICAL ENGINEERING	A, B, C, D
07	04-07-2023	Tuesday	02.00 pm to 04.00 pm	COMPUTATIONAL SKILLS	A, B, C, D

**Instruction of PUT Examination SUMMER 2023**

- Theory Exam time will be 3 hours. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.
- Students must clear the balance fees, before attending the PUT examination.

**J. H. P. K. J.** Exam in charge  
**H. Q. D.** HOD  
**V. P.** Vice-Principal  
**P. K. J.** Principal

Department of Applied Science & Humanities  
 GNIEET Nagpur

1. Circulation among Staff.  
 2. Circulation among Students.  
 3. Notice Board.

**Guru Nanak Institute of Engineering & Technology**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501

**Note-sheet**  
 Reference: Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session: 2022-2023  
 Second Semester (EVEN)  
 Subject: PUT- Exam Requirement

Date: 15/06/2023

Date	Content	Quantity
15/06/2023	Please provide below requirements for PUT Exam. No. of Students – 240 No. of Subjects – 07	
	1. Main Answer Sheet -----	1500
	2. A4 Size Rims -----	04
	240 Students X 7 Subjects = 1680 Copies	
	3. High Lighter -----	01

Forwarded to HOD  
 J. H. P. K. J.  
 In-Charge  
 Sessional Exam  
 G.N.I.E.T., Nagpur

**H. Q. D.** HOD  
**V. P.** Vice-Principal  
**P. K. J.** Principal

Department of Applied Science & Humanities  
 GNIEET Nagpur

**Guru Nanak Institute of Engineering & Technology**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2022-23 (EVEN)  
 PRE UNIVERSITY TEST  
 ATTENDANCE SHEET

Section-A	Roll No.	Students Name	M-II	AFM	ICC	AC	EM	BEE	CS
	1	Aakanksha Sarda Mali	AB	AB	AB	AB	AB	AB	AB
	2	Achal Dhanrajprakash Lechanga	AB	AB	AB	AB	AB	AB	AB
	3	Aditi Dilip Shende	AB	AB	AB	AB	AB	AB	AB
	4	Arpita Umesh Bhatkar	AB	AB	AB	AB	AB	AB	AB
	5	Arya Vilas Prabhale	AB	AB	AB	AB	AB	AB	AB
	6	Aswini Arun Chourse	AB	AB	AB	AB	AB	AB	AB
	7	Bhambhure Suresh Kapse	AB	AB	AB	AB	AB	AB	AB
	8	Chhikoti Dhruv Anilkar	AB	AB	AB	AB	AB	AB	AB
	9	Dhanuree Satyawan Bhale	AB	AB	AB	AB	AB	AB	AB
	10	Gurjan Sanjay Dhadwad	AB	AB	AB	AB	AB	AB	AB
	11	Harshwardhan Sumit Kewate	AB	AB	AB	AB	AB	AB	AB
	12	Hemant Hemantkumar Shende	AB	AB	AB	AB	AB	AB	AB
	13	Jishu Shalendra Dange	AB	AB	AB	AB	AB	AB	AB
	14	Kajal Jayprakash Rangari	AB	AB	AB	AB	AB	AB	AB
	15	Kashish Manoj Mahato	AB	AB	AB	AB	AB	AB	AB
	16	Mrunal Prakash Badwalkar	AB	AB	AB	AB	AB	AB	AB
	17	Muskan Manoj Nikose	AB	AB	AB	AB	AB	AB	AB
	18	Natasha Kalash Chitambar	AB	AB	AB	AB	AB	AB	AB
	19	Nisha Wasudeo Choudhari	AB	AB	AB	AB	AB	AB	AB
	20	Pranali Shantkar Nagpure	AB	AB	AB	AB	AB	AB	AB
	21	Rajvi Ramesh Choudhary	AB	AB	AB	AB	AB	AB	AB
	22	Sakshi Manikrao Sarode	AB	AB	AB	AB	AB	AB	AB
	23	Sanhya Nareesh Sorute	AB	AB	AB	AB	AB	AB	AB
	24	Sargam Dilip Anandaram	AB	AB	AB	AB	AB	AB	AB
	25	Shital Madan Meshram	AB	AB	AB	AB	AB	AB	AB
	26	Shivani Ramkrushna Dhaswas	AB	AB	AB	AB	AB	AB	AB
	27	Shreya Prashant Mohod	AB	AB	AB	AB	AB	AB	AB
	28	Susarna Pramodrao Kadwe	AB	AB	AB	AB	AB	AB	AB
	29	Tommya Kamalakar Jaywal	AB	AB	AB	AB	AB	AB	AB
	30	Vaishnavi Sunil Ahirkar	AB	AB	AB	AB	AB	AB	AB
	31	Vanika Dilip Shivankar	AB	AB	AB	AB	AB	AB	AB
	32	Vishwanti Shreevas Chettiabelli	AB	AB	AB	AB	AB	AB	AB
	33	Aditya Maheshkumar Gwalwanshi	AB	AB	AB	AB	AB	AB	AB
	34	Arifya Sanjay Waradkar	AB	AB	AB	AB	AB	AB	AB
	35	Akshay Gaurav Chaudhkar	AB	AB	AB	AB	AB	AB	AB
	36	Akshay Yogeshwar Bankar	AB	AB	AB	AB	AB	AB	AB
	37	Arpit Sanjay Thakre	AB	AB	AB	AB	AB	AB	AB
	38	Bhavesh Pramod Nikhad	AB	AB	AB	AB	AB	AB	AB
	39	Bhuvan Prashant Kanamangillwar	AB	AB	AB	AB	AB	AB	AB
	40	Chaitanya Pralhad Ambute	AB	AB	AB	AB	AB	AB	AB
	41	Dhannaraina Baburao Somkuwar	AB	AB	AB	AB	AB	AB	AB

**Guru Nanak Institute of Engineering & Technology**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2022-23 (EVEN)  
 PRE UNIVERSITY TEST  
 ATTENDANCE SHEET

Section-A	Roll No.	Students Name	M-II	AFM	ICC	AC	EM	BEE	CS
	42	Dilkhosh Rambhau Tikale	AB	AB	AB	AB	AB	AB	AB
	43	Cvinda Dilip Channe	AB	AB	AB	AB	AB	AB	AB
	44	Harsh Jaramal Singh Bhatiya	AB	AB	AB	AB	AB	AB	AB
	45	Kaifhah Suryakant Veste	AB	AB	AB	AB	AB	AB	AB
	46	Laukhik Prakash Chivhare	AB	AB	AB	AB	AB	AB	AB
	47	Mangesh Vikas Wadakar	AB	AB	AB	AB	AB	AB	AB
	48	Mayur Jayant Pawar	AB	AB	AB	AB	AB	AB	AB
	49	Om Jagdish Bhatyar	AB	AB	AB	AB	AB	AB	AB
	50	Pavan Ravindra Harle	AB	AB	AB	AB	AB	AB	AB
	51	Sagar Bhophram Rahangdale	AB	AB	AB	AB	AB	AB	AB
	52	Sahil Prakash Tandekar	AB	AB	AB	AB	AB	AB	AB
	53	Shubay Mishrawar Khante	AB	AB	AB	AB	AB	AB	AB
	54	Shivam Rajendra Bhariye	AB	AB	AB	AB	AB	AB	AB
	55	Shubham Ranraj Shile	AB	AB	AB	AB	AB	AB	AB
	56	Sujal Ravindra Dharur	AB	AB	AB	AB	AB	AB	AB
	57	Tanvir Aslam Malnis	AB	AB	AB	AB	AB	AB	AB
	58	Yash Anil Chavan	AB	AB	AB	AB	AB	AB	AB
	59	Yash Parthib Gajrabhatkar	AB	AB	AB	AB	AB	AB	AB
	60	Zeshan Feroz Sheikh	AB	AB	AB	AB	AB	AB	AB

Present Students :-  
 60  
 Absent Students :-  
 00  
 Name & Sign of Faculty



# Guru Nanak Educational Society's GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

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Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



Guru Nanak Institute of Engineering & Technology  
Dahegaon, Kalmeshwar Road, Nagpur Pin-441501  
Department of Applied Sciences & Humanities (B. Tech. First Year)  
Section 2022-23 (EVEN)  
PUE UNIVERSITY TEST  
ATTENDANCE SHEET

Roll No.	Students Name	M-H	AFM	EM	AC	ICC	BE	CS
1	Aishwarya Ravish Kamble	AB	AB	AB	AB	AB	AB	AB
2	Arya Abh Dodele	AB	AB	AB	AB	AB	AB	AB
3	Dipali Bhagwan Athikar	AB	AB	AB	AB	AB	AB	AB
4	Divya Rajesh Dhoge	AB	AB	AB	AB	AB	AB	AB
5	Hitesha Sachin Dodele	AB	AB	AB	AB	AB	AB	AB
6	Humanshi Nishul Bhave	AB	AB	AB	AB	AB	AB	AB
7	Isha Hemant Hatke	AB	AB	AB	AB	AB	AB	AB
8	Kaivaly Rupesh Dhangayee	AB	AB	AB	AB	AB	AB	AB
9	Khushbu Dinesh Choudhari	AB	AB	AB	AB	AB	AB	AB
10	Khushi Dhanraj Choudhari	AB	AB	AB	AB	AB	AB	AB
11	Manasi Omprakash Arjapure	AB	AB	AB	AB	AB	AB	AB
12	Manasa Balchand Jagtap	AB	AB	AB	AB	AB	AB	AB
13	Mrunal Dinesh Kapse	AB	AB	AB	AB	AB	AB	AB
14	Natalksha Anil Dhoke	AB	AB	AB	AB	AB	AB	AB
15	Nisha Dhanraj Dambale	AB	AB	AB	AB	AB	AB	AB
16	Nisha Ramkrushna Shete	AB	AB	AB	AB	AB	AB	AB
17	Prachi Ramkrushna Chavale	AB	AB	AB	AB	AB	AB	AB
18	Pratiksha Shrikrushna Hingane	AB	AB	AB	AB	AB	AB	AB
19	Riya Manoj Kalankar	AB	AB	AB	AB	AB	AB	AB
20	Ruchika Kumar Jagrit	AB	AB	AB	AB	AB	AB	AB
21	Shriyati Madhur Shalikh	AB	AB	AB	AB	AB	AB	AB
22	Shreya Dhanraj Lokad	AB	AB	AB	AB	AB	AB	AB
23	Shruti Nitraj Bhave	AB	AB	AB	AB	AB	AB	AB
24	Sonal Bhavraj Dhole	AB	AB	AB	AB	AB	AB	AB
25	Srushti Sanjay Bansod	AB	AB	AB	AB	AB	AB	AB
26	Swati Raju Baghmare	AB	AB	AB	AB	AB	AB	AB
27	Tannuhasree Shivraj Ramtek	AB	AB	AB	AB	AB	AB	AB
28	Ashvi Aarav Abdul Shaikh	AB	AB	AB	AB	AB	AB	AB
29	Alkesh Prashant Dahake	AB	AB	AB	AB	AB	AB	AB
30	Amj Nandini Karadibhane	AB	AB	AB	AB	AB	AB	AB
31	Arjun Nilesh Dhoran	AB	AB	AB	AB	AB	AB	AB
32	Dhananjay Katakhar Jichkar	AB	AB	AB	AB	AB	AB	AB
33	Dhruv Nitin Dhote	AB	AB	AB	AB	AB	AB	AB
34	Dhruvi Vilas Chintakar	AB	AB	AB	AB	AB	AB	AB
35	Ganesh Bhagwat Belare	AB	AB	AB	AB	AB	AB	AB
36	Gaurav Vasudev Baragade	AB	AB	AB	AB	AB	AB	AB
37	Harshal Gopalrao Deshmukh	AB	AB	AB	AB	AB	AB	AB
38	Harshal Mahendra Golait	AB	AB	AB	AB	AB	AB	AB
39	Lokesh Ramawadh Chauhan	AB	AB	AB	AB	AB	AB	AB
40	Nikhil Kishor Dange	AB	AB	AB	AB	AB	AB	AB

Guru Nanak Institute of Engineering & Technology  
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PUE UNIVERSITY TEST  
ATTENDANCE SHEET

Roll No.	Students Name	M-H	AFM	EM	AC	ICC	BE	CS
41	Nilesh Yuvraj Chitris	AB	AB	AB	AB	AB	AB	AB
42	Om Sudhakar Babade	AB	AB	AB	AB	AB	AB	AB
43	Pavan Anandraj Chikhale	AB	AB	AB	AB	AB	AB	AB
44	Prashant Kumar	AB	AB	AB	AB	AB	AB	AB
45	Pratish Ramesh Kale	AB	AB	AB	AB	AB	AB	AB
46	Prathmesh Ganeshji Chankar	AB	AB	AB	AB	AB	AB	AB
47	Prathmesh Prashant Munde	AB	AB	AB	AB	AB	AB	AB
48	Pratik Dhanraj	AB	AB	AB	AB	AB	AB	AB
49	Rishabh Sanjay Gour	AB	AB	AB	AB	AB	AB	AB
50	Ratishesh Shrikrushna Kaje	AB	AB	AB	AB	AB	AB	AB
51	Sangharsha Rajesh Kumbhar	AB	AB	AB	AB	AB	AB	AB
52	Sankar Yitayrao Dabhe	AB	AB	AB	AB	AB	AB	AB
53	Shravan Divendra Dharme	AB	AB	AB	AB	AB	AB	AB
54	Sunaj Ravindra Mozarkar	AB	AB	AB	AB	AB	AB	AB
55	Ujjwal Laxman Bhojar	AB	AB	AB	AB	AB	AB	AB
56	Vansh Bhawal Dhote	AB	AB	AB	AB	AB	AB	AB
57	Vishant Chandraprakash Kambe	AB	AB	AB	AB	AB	AB	AB
58	Vicky Devdas Bhandarkar	AB	AB	AB	AB	AB	AB	AB

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Roll No.	Students Name	M-H	AFM	EM	AC	ICC	BE	CS
1	Akanksha Chandrashekhar Kulkarni	AB	AB	AB	AB	AB	AB	AB
2	Anjali Prashant Tekade	AB	AB	AB	AB	AB	AB	AB
3	Chaitali Raju Misra	AB	AB	AB	AB	AB	AB	AB
4	Chaitany Vishnu Mhatre	AB	AB	AB	AB	AB	AB	AB
5	Khushi Chaitali Pandey	AB	AB	AB	AB	AB	AB	AB
6	Manasi Manojrao Dalvi	AB	AB	AB	AB	AB	AB	AB
7	Neha Dhanraj Tagde	AB	AB	AB	AB	AB	AB	AB
8	Neta Chandrashekhar Gadgil	AB	AB	AB	AB	AB	AB	AB
9	Nikita Manoj Ware	AB	AB	AB	AB	AB	AB	AB
10	Omisha Vijay Bangare	AB	AB	AB	AB	AB	AB	AB
11	Prachi Divyanshu Dhavale	AB	AB	AB	AB	AB	AB	AB
12	Pratiksha Roshan Rongani	AB	AB	AB	AB	AB	AB	AB
13	Rachika Falindra Chaudhkar	AB	AB	AB	AB	AB	AB	AB
14	Samaira Rajesh Parule	AB	AB	AB	AB	AB	AB	AB
15	Sandhya Chandrashekhar	AB	AB	AB	AB	AB	AB	AB
16	Shreya Vinod Kothake	AB	AB	AB	AB	AB	AB	AB
17	Shreya Gaganan Trakar	AB	AB	AB	AB	AB	AB	AB
18	Shruti Vinay Sonkavkar	AB	AB	AB	AB	AB	AB	AB
19	Susmita Rupali Maske	AB	AB	AB	AB	AB	AB	AB
20	Tanay Vinod Wagholane	AB	AB	AB	AB	AB	AB	AB
21	Timoshri Ramesh Nishane	AB	AB	AB	AB	AB	AB	AB
22	Urvina Akhil Hingane	AB	AB	AB	AB	AB	AB	AB
23	Vaishnavi Baban Havankar	AB	AB	AB	AB	AB	AB	AB
24	Vinaya Purushottam Jambhalkar	AB	AB	AB	AB	AB	AB	AB
25	Vishu Raju Padke	AB	AB	AB	AB	AB	AB	AB
26	Vishwajit Vinay Bawane	AB	AB	AB	AB	AB	AB	AB
27	Anshul Kishorwar Naravanshi	AB	AB	AB	AB	AB	AB	AB
28	Ankit Barakhi Nagose	AB	AB	AB	AB	AB	AB	AB
29	Anshul Naresh Mahurkar	AB	AB	AB	AB	AB	AB	AB
30	Anurag Anil Kaware	AB	AB	AB	AB	AB	AB	AB
31	Anurag Bhagwan Wankhede	AB	AB	AB	AB	AB	AB	AB
32	Arjun Khatu	AB	AB	AB	AB	AB	AB	AB
33	Ashwin Dnyaneshwar Shelke	AB	AB	AB	AB	AB	AB	AB
34	Atharva Suresh Raut	AB	AB	AB	AB	AB	AB	AB
35	Bhuvanikumar Yograj Dhairam	AB	AB	AB	AB	AB	AB	AB
36	Chetan Sudhakar Gotmare	AB	AB	AB	AB	AB	AB	AB
37	Ching Yashraj Wamare	AB	AB	AB	AB	AB	AB	AB
38	Khushwant Arun Meshram	AB	AB	AB	AB	AB	AB	AB
39	Kuldeep Arun Sapate	AB	AB	AB	AB	AB	AB	AB
40	Lucky Raju Mathankar	AB	AB	AB	AB	AB	AB	AB

Guru Nanak Institute of Engineering & Technology  
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Department of Applied Sciences & Humanities (B. Tech. First Year)  
Section 2022-23 (EVEN)  
PUE UNIVERSITY TEST  
ATTENDANCE SHEET

Roll No.	Students Name	M-H	AFM	EM	AC	ICC	BE	CS
41	Madhur Rajesh Bharade	AB	AB	AB	AB	AB	AB	AB
42	Maheesh Roshan Jambhulkar	AB	AB	AB	AB	AB	AB	AB
43	Monish Vishnu Sathwane	AB	AB	AB	AB	AB	AB	AB
44	Nikhil Vinod Tiwari	AB	AB	AB	AB	AB	AB	AB
45	Pranav Pramod Ghodki	AB	AB	AB	AB	AB	AB	AB
46	Rohan Babalu Choudhari	AB	AB	AB	AB	AB	AB	AB
47	Sarvesh Milind Kavikar	AB	AB	AB	AB	AB	AB	AB
48	Saurabh Durgadas Shambharkar	AB	AB	AB	AB	AB	AB	AB
49	Shreyash Rajendra Mane	AB	AB	AB	AB	AB	AB	AB
50	Sujit Rajendra Guratkar	AB	AB	AB	AB	AB	AB	AB
51	Sumit Naresh Bele	AB	AB	AB	AB	AB	AB	AB
52	Tanishk Dilip Laroorkar	AB	AB	AB	AB	AB	AB	AB
53	Tejas Ravindra Gudadhe	AB	AB	AB	AB	AB	AB	AB
54	Uday Jagdish Lakhe	AB	AB	AB	AB	AB	AB	AB
55	Vansh Banda Raut	AB	AB	AB	AB	AB	AB	AB
56	Vikas Dharamnanda Matlick	AB	AB	AB	AB	AB	AB	AB
57	Vinay Shivankumar Yele	AB	AB	AB	AB	AB	AB	AB
58	Vishwadeep Pradeep Selokar	AB	AB	AB	AB	AB	AB	AB
59	Vivek Omprakash Hatwar	AB	AB	AB	AB	AB	AB	AB
60	Yash Arvind Ambart	AB	AB	AB	AB	AB	AB	AB



**Guru Nanak Institute of Engineering & Technology**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 Department of Applied Sciences & Humanities (B. Tech. First Year)  
 Session 2022-23 (EVEN)  
 PRE UNIVERSITY TEST  
 ATTENDANCE SHEET

Roll No.	M-II	AEM	ICC	AC	EM	BEE	CS
41	Madhur Rajesh Bharade	AB	AB	AB	AB	AB	AB
42	Mahesh Roshan Janbandhu	AB	AB	AB	AB	AB	AB
43	Monish Vishnu Sathwane	AB	AB	AB	AB	AB	AB
44	Nikhil Vinod Tiwari	AB	AB	AB	AB	AB	AB
45	Pranay Pramod Ghedki	AB	AB	AB	AB	AB	AB
46	Rohan Babalu Choudhari	AB	AB	AB	AB	AB	AB
47	Sarvesh Milind Kavirkar	AB	AB	AB	AB	AB	AB
48	Saurabh Durgadas Shambharkar	AB	AB	AB	AB	AB	AB
49	Shreyash Rajendra Mane	AB	AB	AB	AB	AB	AB
50	Sujit Rajendra Guratkar	AB	AB	AB	AB	AB	AB
51	Sumit Nareish Bele	AB	AB	AB	AB	AB	AB
52	Tanishq Dilip Larokar	AB	AB	AB	AB	AB	AB
53	Tejas Ravindra Gudadhe	AB	AB	AB	AB	AB	AB
54	Uday Jagdish Lakhe	AB	AB	AB	AB	AB	AB
55	Vansaj Bandu Raut	AB	AB	AB	AB	AB	AB
56	Vikash Dharamnanda Mallick	AB	AB	AB	AB	AB	AB
57	Vinay Shrawankumar Yele	AB	AB	AB	AB	AB	AB
58	Vishwadeep Pradseep Selokar	AB	AB	AB	AB	AB	AB
59	Vivek Omprakash Hatwar	AB	AB	AB	AB	AB	AB
60	Yash Arvind Ambart	AB	AB	AB	AB	AB	AB
Present Students :-							
Absent Students :-							
Total Students :-							
Name & Sign of Faculty							

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 GNIEI / 2022-2023 / EVEN / BSE2-T / EM / PM  
 Pre University Test (2022-23)  
 Subject Name: Engineering Mechanics  
 Time: - 2 Hours  
 Year/Sem.: 1<sup>st</sup> / 2<sup>nd</sup> Sec.: A, B  
 Max. Marks: - 35 M  
 Date of Exam: - 29/06/2023

Notes:

- All questions carry marks as indicated.
- Solve Question 1 OR Questions No. 2.
- Solve Question 3 OR Questions No. 4.
- Solve Question 5 OR Questions No. 6.
- Solve Question 7 OR Questions No. 8.
- Solve Question 9 OR Questions No. 10.
- Use of non programmable calculator is permitted.

1. a) State and explain varignon's theorem. 3

b) The resultant of four forces of which three are as shown in fig. 1. is acting down to the right with slope of 5:12 [y:x] through point A. Determine the missing force P and its x-intercept.

OR

2. a) Explain principle of transmissibility. 2

b) Force 'F' of 80kN magnitude passes through point A (-2, 1, 3) towards B (4, 4, 5) coordinates of point C and D are (-2, 0, 1) and (2, 0, -2) respectively. Find,  
 i) Components of Force 'F' along AC.  
 ii) Moments of force about BC.  
 iii) Moments of force about line CD. 7

3. a) State and explain Lami's theorem. 3

b) Find the distance "X" (measured along AB) at which a horizontal force of 260N should be applied to hold the uniform bar "AB" in equilibrium position as shown in fig 2. Bar "AB" is 3m long and weight 620N. All surfaces are smooth.

OR

4. a) State the equation of equilibrium for concurrent, parallel and general force system. 2

b) Determine the forces in all members of the truss loaded and supported as shown in fig 7

5. a) State Parallel axis theorem of moment of inertia. 3

b) Determine moment of inertia of shaded area in fig. 4 about y-axis. 3

OR

6. a) Explain principle of virtual work 3

b) Determine the support reaction B and C using principle of virtual work for fig. 6

7. a) Explain the term "coefficient of restitution" 2

b) A block of 50N weight moving with "V" velocity hits a sphere of 10N weight was initially at rest before impact. If coefficient of restitution is 0.70. Determine the initial velocity of block just before impact, so that the sphere will swing through 90°.

OR

8. Determine acceleration of each block as shown in fig 7. Take coefficient of friction for all contact surfaces as 0.20. 6

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441501  
 GNIEI / 2022-2023 / EVEN / BSE2-T / Mathematics II / BA  
 Pre University Test (2022-23)  
 Subject Name: Mathematics - II  
 Time: - 3 Hours  
 Year/Sem.: 1<sup>st</sup> / 2<sup>nd</sup> Sec.: A, B, C, D  
 Max. Marks: - 70 M  
 Date of Exam: - 29/06/2023

Notes:

- All questions carry marks as indicated.
- Solve Question 1 OR Questions No. 2.
- Solve Question 3 OR Questions No. 4.
- Solve Question 5 OR Questions No. 6.
- Solve Question 7 OR Questions No. 8.
- Solve Question 9 OR Questions No. 10.
- Use of non programmable calculator is permitted.

1. a) Evaluate:  $\int_0^{\pi} x \frac{1}{x^2} dx$  5

b) Find the R.M.S. value for one complete period of the function  $f(t) = \frac{1}{2} + \cos t$ . Hence show the Peak value =  $\sqrt{3}$  (R.M.S. value). 5

c) Trace the curve  $a^2x^2 = y^2(2a - y)$  6

OR

2. a) Prove that  $\int_0^{\pi/2} \sqrt{\tan \theta} d\theta = \frac{\pi}{2\sqrt{2}}$  5

b) Evaluate  $\int_0^1 \frac{x^\alpha - 1}{\log x} dx$ ,  $\alpha \geq 0$  by applying differentiation under the integral sign. 5

c) Find the area enclosed by the two parabolas  $y^2 = 4x$  and  $y^2 = -4(x-2)$ . 6

3. a) Evaluate  $\int_0^1 \int_0^1 xy e^{-x^2} dy dx$  5

b) Evaluate  $\int_0^{\pi/2} \int_0^{\sec \theta} \frac{x^2}{y(x^2 + y^2)^{3/2}} dy dx$  by changing it into polar co-ordinates. 5

c) Evaluate  $\int_0^1 \int_0^{1-x} \int_0^{1-x-y} x dz dy dx$  6

OR

4. a) Evaluate by changing order of integration  $\int_0^1 \int_0^{\sqrt{1-x^2}} \frac{e^{-y}}{y} dy dx$  5

b) Evaluate the area enclosed between the parabola  $y = x^2$  and the straight line  $y = x$ . 5

c) Find the mass of an elliptic plate  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$  if the density at any point (x, y) on it is  $P = \rho xy$  6



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**GURU NANAK INSTITUTE  
 OF ENGINEERING & TECHNOLOGY**

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 Dahegaon, Opp IOC Petrol pump, Kalmeshwar Road, Nagpur- 441501 Ph. 07118-661400  
 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



5. a) Find the directional derivative of  $\phi$  at the point  $(1, 1, -1)$  in the direction  $2\mathbf{i} - \mathbf{j} - \mathbf{k}$ . In what direction will the directional derivative be maximum and what is its magnitude?

b) A fluid motion is given by  $\mathbf{V} = (y+z)\mathbf{i} + (z+x)\mathbf{j} + (x+y)\mathbf{k}$  show that the motion is irrotational and hence find the velocity potential.

OR

6. a) A particle moves along the curve  $\mathbf{r} = (t^2 - 4t + 4)\mathbf{i} + (6t^2 - 3t)\mathbf{j}$  where  $t$  is the time. Find the magnitude of the tangential and normal components of its acceleration at  $t = 2$ .

b) Suppose  $\mathbf{F}(x, y, z) = x^2\mathbf{i} + y\mathbf{j} + z\mathbf{k}$  is the force field. Find the workdone by  $\mathbf{F}$  along the line from the points  $(1, 2, 3)$  to  $(3, 5, 7)$ .

7. a) Fit a straight line  $y = a + bx$  to the following data

x	1	2	3	4	5	6	8
y	2.4	3	3.6	4	5	6	6

b) Find the coefficient of correlation and obtain the equations of lines of regression for the data:

x	6	2	10	4	8
y	9	11	5	8	7

OR

8. a) Fit a curve  $y = ax^b$  to the following data

x	1	2	3	4	5	6
y	2.08	4.26	5.21	6.10	6.80	7.5

b) Obtain the rank correlation coefficient for the following data:

x	25	28	30	25	24	30	48	45	38	25
y	44	34	28	32	34	29	35	42	24	30

9. a) Express  $f(x) = 2x^4 - 5x^2 + 7$  in terms of factorial notation and hence find  $\Delta^2 f(x)$  at  $x = 1.5$ .

b) Use Simpson's one third rule to evaluate the integral  $\int_0^2 \frac{2e^{-x^2}}{\sqrt{\pi}} dx$  taking 10 equal strips.

OR

10. a) Find  $y(7)$  from the following table by using Lagrange's interpolation formula

x	5	6	9	11
y	2.2	2.7	3.9	5.0

b) Solve the difference equation  $y_{n+2} - 4y_n = 2^n$

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
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 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2022-2023 (EVEN) Date - 02-06-2023

**INTERNAL PRACTICAL EXAMINATION NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Faculty of First Year B. Tech. (Semester-II) are hereby informed that the Internal Practical Exam is to be scheduled from 15/06/2023 to 20/06/2023 & Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Summer 2023**

- Written exam time will be of 1hr. (Practical)
- Students need to submit the paper as per allotted time, Descriptive type questions will be asked in the examinations (Practical)
- After written exam, Practical viva must be taken.

Exam In charge  
 Seasonal Exam  
 G.N.I.E.T., Nagpur

HOD  
 Department of Applied Science & Humanities  
 G.N.I.E.T. Nagpur

Vice-Principal

Principal  
 Guru Nanak Institute of Engineering & Technology  
 Nagpur - 441501

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2022-2023 (EVEN) Date - 02-06-2023

**INTERNAL PRACTICAL EXAMINATION NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Student of First Year B. Tech. (Semester-II) are hereby informed that the Internal Practical Exam is to be scheduled from 15/06/2023 to 20/06/2023 & Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Summer 2023**

- Written exam time will be of 1hr. (Practical)
- Students need to submit the paper as per allotted time, Descriptive type questions will be asked in the examinations (Practical)
- After written exam students must prepare for Viva
- If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- Students must clear the balance fees, before attending the practical examination.
- Students must carry the practical record.

Exam In charge  
 In-Charge  
 Seasonal Exam  
 G.N.I.E.T., Nagpur

HOD  
 Department of Applied Science & Humanities  
 G.N.I.E.T. Nagpur

Vice-Principal

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 Nagpur - 441501

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GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2022-2023 (EVEN) Date - 02/06/2023

**Internal Practical Examination Time Table Summer-2023**

Sr. No.	Date	Day	Time	Section	Subject
01	15-06-2023	Thursday	02.40 pm to 05.20 pm	A	Advanced Engineering Materials
				B	Applied Chemistry
				C	Workshop Practices
				D	Computational Skills
02	16-06-2023	Friday	02.40 pm to 05.20 pm	A	Applied Chemistry
				B	Advanced Engineering Materials
				C	Computational Skills
				D	Workshop Practices
03	19-06-2023	Monday	02.40 pm to 05.20 pm	A	Advanced Engineering Materials
				B	Computational Skills
				C	Advanced Engineering Materials
				D	Applied Chemistry
04	20-06-2023	Thursday	02.40 pm to 05.20 pm	A	Computational Skills
				B	Workshop Practices
				C	Applied Chemistry
				D	Advanced Engineering Materials

**Instruction of Internal Practical Examination Summer-2023**

- If any students fail to attend the exam as per allotted schedule, he/she will be consider as absent.
- Students must clear the balance fees, before attending the practical examination.
- Students must carry the practical record.

Exam In charge  
 Seasonal Exam  
 G.N.I.E.T., Nagpur

HOD  
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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2022-2023



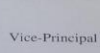

Date - 20-02-2023

**INTERNAL PRACTICAL EXAMINATION NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Faculty of First Year B. Tech. (Semester-I) are hereby informed that the Internal Practical Exam is to be scheduled from 27/02/2023 to 28/02/2023 & Time Table has been displayed on the Notice Board.

**Instruction of Internal Practical Examination Winter 2022**

- Written exam time will be of 1hr. (Practical)
- Students need to submit the paper as per allotted time. Descriptive type questions will be asked in the examinations (Practical)
- After written exam, Practical viva must be taken.

 In-Charge Exam  
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 Vice-Principal  
 Principal

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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501.  
**First Sesssional Exam (2022-23)**

Date of Exam:- 09/05/2023  
 Year/Sem.: 1<sup>st</sup>/2<sup>nd</sup> Sec.- All  
 Max. Marks:- 20 M

GNIET/2022-2023/EVEN/ BSE1-1 /MIFA  
 Subject Name: Mathematics II  
 Time:- 9.45 am-10.45 am (1 Hours)

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry marks as indicated.
- Solve TWO questions as follows:  
 Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4
- Assume suitable data wherever necessary.

- Fit a straight line  $y = a + bx$  to the following data: 6

X	1	2	3	4	6	8
y	2.4	3	3.6	4	5	6
- Fit the curve  $y = ae^{bx}$  to the following data: 6

X	1	2	3	4	5	6
y	14	27	40	55	68	300

**OR**

- Fit the curve  $y = a + bx^2$  for the following data: 6

X	1	2	3	4	5
y	1.8	5.1	8.9	14.1	19.8
- Fit the curve  $y = ab^x$  to the following data: 6

X	1	2	3	4	5	6
y	1.6	4.5	13.8	40.2	125	300

- Calculate the co-efficient of correlation and obtain two regression lines for the following data: 8

x:	1	2	3	4	5	6	7	8	9
y:	9	8	10	12	11	13	14	16	15

**OR**

- Calculate the co-efficient of correlation and obtain two regression lines for the following data: 8

x:	2	4	6	7	8	9	5	15	11	13
y:	7	8	3	5	9	7	19	15	17	10

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur-441 501.  
 DEPARTMENT OF APPLIED SCIENCES & HUMANITIES  
**First Sesssional Examination**  
 GNIET/2022-23/EVEN/BSE2-2T/AEM /SG/SM





Date of Exam:- 10/05/2023  
 Year/Sem.: 1<sup>st</sup>/2<sup>nd</sup> A & B  
 Maximum Marks:- 20M

Subject : Advance Engineering Materials  
 Time:- 9.45am-10.45am (1 hours)

**INSTRUCTIONS TO CANDIDATE:**

- All questions carry marks as indicated.
- Solve TWO questions as follows:  
 (i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4
- Assume suitable data wherever necessary.
- Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	Explain the synthesis of Nanomaterial ? Describe any two method ?	6
	b)	What are Nnoscience ? Explaine the properties of Nanomaterial?	4
<b>OR</b>			
2.	a)	What is Nanotechnology ? How are electrical , magnetic and mechanical properties of Nano-particles vary with their size ?	6
	b)	Why do change in properties of materials at nanoscale ? Application of Nanomaterial ?	4
3.	a)	Synthesis of carbon nanotube ? Explain any two method ?	6
	b)	What are the carbon nanotube ? Explain the different types of carbon nanotube ?	4
<b>OR</b>			
4.	a)	Write short note of carbon nanotube ?	4
	b)	What are the importance application of carbon nanotube ? Explain the properties of carbon nanotube?	6

 In-Charge Exam  
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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2022-2023 (ODD)





Date - 26-12-2022

**SESSIONAL EXAM NOTICE**  
 (B. Tech. FIRST SEMESTER)

All the Student of First Year B. Tech. (Semester-I) are hereby informed that the Sessional-I is to be scheduled from 03/01/2023 to 10/01/2023 & Time Table has been displayed on the Notice Board.

**Instruction of Sessional Examination Winter 2022**

- Syllabus for exam will be 2 units of respective subject
- Theory Exam time will be 1 hour. Students need to submit the paper as per allotted time.
- If any student fail to attend the exam, its mention as absent.

 In-Charge Exam  
 HOD  
 Vice-Principal  
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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
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 Department of Applied Sciences & Humanities  
 (B.E. First Year)  
 Session: 2022-2023

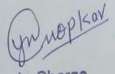
Date - 26-12-2022


**SESSIONAL EXAM NOTICE**  
 (B. Tech. FIRST SEMESTER)

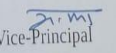
All the Faculties of **First Year B. Tech. (Semester-I)** are hereby informed that they have to submit question paper of their respective subject for the **Sessional-I** which is to be scheduled from **03/01/2023 to 10/03/2023** on or before **Monday, 02 Jan. 2023** and also send to [yashrajchopkar@yahoo.co.in](mailto:yashrajchopkar@yahoo.co.in).

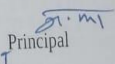
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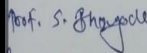
1. Format of question paper will send you on your mail.
2. Question Paper covered syllabus upto Monday 02-01-2023
3. All Faculty must have to submit Question Bank of 15 Questions of their respective subject on or before Friday, 30/12/2022.
4. All faculty must have to complete 2 Units of their respective subject.

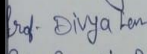
  
 In-Charge Sessional Exam  
 G. N. Chopkar  
 Department of Applied Sciences & Humanities  
 Nagpur

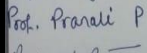
  
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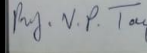
  
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 Department of Applied Sciences & Humanities  
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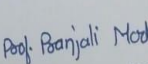
  
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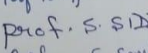
  
 Prof. S. Bhagade

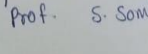
  
 Prof. Divya kande

  
 Prof. Pranali P. Khorwade

  
 Prof. V. P. Tayle

  
 Prof. Banjali Madhankar

  
 Prof. S. SIDDIQUE

  
 Prof. S. Sonkuwar

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**  
 Dahegaon, Kalmeshwar Road, Nagpur  
 Department of Applied Sciences & Humanities  
 (B. Tech. First Year)  
 Session: 2022-2023


Date:-26/12/2022


**Sessional-I Time Table**

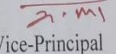
Sr. No.	Date	Day	Time	Paper
01	03-01-2023	Tuesday	10.00 am to 11.00 am	MATHEMATICS-I
02	04-01-2023	Wednesday	10.00 am to 11.00 am	BASICS OF CIVIL & MECHANICAL ENGINEERING
03	05-01-2023	Thursday	10.00 am to 11.00 am	ENERGY AND ENVIRONMENT
04	06-01-2023	Friday	10.00 am to 11.00 am	COMMUNICATION SKILLS
05	09-01-2023	Monday	10.00 am to 11.00 am	ENGINEERING GRAPHICS
06	10-01-2023	Tuesday	10.00 am to 11.00 am	APPLIED PHYSICS

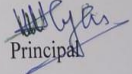
**Instruction of Sessional Examination Winter 2022**


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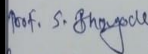
  
 Exam In charge  
 Sessional Exam  
 G. N. Chopkar  
 Department of Applied Sciences & Humanities  
 Nagpur

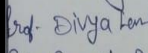
  
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 Nagpur

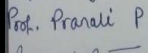
  
 Vice-Principal  
 Department of Applied Sciences & Humanities  
 Nagpur

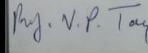
  
 Principal  
 Department of Applied Sciences & Humanities  
 Nagpur

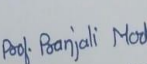
  
 Principal  
 Guru Nanak Institute of Engineering & Technology  
 Nagpur - 441501

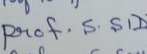
  
 Prof. S. Bhagade

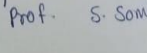
  
 Prof. Divya kande

  
 Prof. Pranali P. Khorwade

  
 Prof. V. P. Tayle

  
 Prof. Banjali Madhankar

  
 Prof. S. SIDDIQUE

  
 Prof. S. Sonkuwar



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## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session: 2022-23)

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<b>Department of Applied Sciences &amp; Humanities</b>						
<b>(B. Tech. First Year)</b>						
Session: 2022-23 (ODD)						
To, <u>Mr. Naresh Sonule</u>				Date: <u>17/01/2023</u>		
<b>Subject:</b> <u>Progress &amp; Attendance Report (First Sessional Result, Monthly Attendance) &amp; Rules to Follow Strictly</u>						
<b>Dear Parents/Guardians,</b>						
We hope this letter finds you in good health and high spirits. As the academic year 2022-2023 (First semester) progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.						
This is to inform you the progress of your ward <u>Mr./Ms. Sanjya Naresh Sonule</u> Roll No. <u>23</u> Section <u>A</u> Studying in <u>First Year (ODD) B. Tech. First Semester</u>						
The <b>ATTENDENCE &amp; MARKS</b> of the <b>FIRST SESSIONAL</b> Examination are as follows:-						
FIRST SESSIONAL EXAM						
SUBJECT	M-I	AP	ENE	EG	CS	Pass/Fail
Mark out of 20	08	12	18	05	17	pass
Attendance up to 17/01/2023	37	34	36	40	39	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Average
Guru Nanak Institute of Engg. & Technology, Nagpur				ACAD Letter To Parents		



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**Department of Applied Sciences & Humanities**  
(B. Tech. First Year)

Session: 2022-23 (ODD)

To, Mr. Naresh Sonule Date: 17/01/2023

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year 2022-2023 (First semester) progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.


This is to inform you the progress of your ward Mr./Ms. Saniya Naresh Sonule Roll No. 23 Section A Studying in First Year (ODD) B. Tech. First Semester


The ATTENDANCE & MARKS of the FIRST SESSIONAL Examination are as follows:-

FIRST SESSIONAL EXAM						
SUBJECT	M-I	AP	ENE	EG	CS	Pass/Fail
Mark out of 20	08	12	18	05	17	pass
Attendance up to 17/01/2023	37	34	36	40	39	
<u>Remarks</u>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					<u>Average</u>

Guru Nanak Institute of Engg. & Technology, Nagpur ACAD Letter To Parents



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 **Department of Applied Sciences & Humanities**  
(B. Tech. First Year)

Session: 2022-23 (ODD)

To,

Date: 17/01/2023

Mr. Prakash Badwaik

**Subject:** Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year 2022-2023 (First semester) progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Mrunali Prakash Badwaik Roll No. 10 Section 13 Studying in First Year (ODD) B. Tech. First Semester


The ATTENDANCE & MARKS of the FIRST SESSIONAL Examination are as follows:-


FIRST SESSIONAL EXAM						
SUBJECT	M-I	AP	ENE	EG	CS	Pass/Fail
Mark out of 20	20	15	14	16	02	pass
Attendance up to 17/01/2023	40	41	41	38	39	
Remarks	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Excellent

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents



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**Department of Applied Sciences & Humanities**  
(B. Tech. First Year)

Session: 2022-23 (ODD)

To,

Date: 17/01/2023

Mr. Dilip Shivankar

**Subject:** *Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.*

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year 2022-2023 (First semester) progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Vartika Dilip Shivankar Roll No. 27 Section A Studying in First Year (ODD) B. Tech. First Semester

The ATTENDANCE & MARKS of the FIRST SESSIONAL Examination are as follows:-

FIRST SESSIONAL EXAM						
SUBJECT	M-I	AP	ENE	EG	CS	Pass/Fail
Mark out of 20	14	15	20	02	20	pass
Attendance up to 17/01/2023	42	41	37	41	38	
Remarks	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Excellent



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**Department of Applied Sciences & Humanities**  
(B. Tech. First Year)

Session: 2022-23 (ODD)

To, Date: 17/01/2023  
Mr. Rudhakar Gotmare

**Subject:** Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2022-2023 (First semester) progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. chetan  
Sudhakar Gotmare Roll No. 38 Section B Studying in  
First Year (ODD) B. Tech. First Semester)

The ATTENDENCE & MARKS of the FIRST SESSIONAL Examination are as follows:-

FIRST SESSIONAL EXAM						
SUBJECT	M-I	AP	ENE	EG	CS	Pass/Fail
Mark out of 20	00	02	08	10	00	Fail
Attendance up to 17/01/2023	16	27	38	33	28	
Remarks	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					poor

Guru Nanak Institute of Engg. & Technology, Nagpur ACAD Letter To Parents



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**Department of Applied Sciences & Humanities**  
(B. Tech. First Year)

Session: 2022-23 (ODD)

To: Mr. Wasudeo Choudhari Date: 17/01/2023

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year 2022-2023 (First semester) progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr/Ms. Nisha Wasudeo Choudhari Roll No. 08 Section C Studying in First Year (ODD) B. Tech. First Semester

The ATTENDANCE & MARKS of the FIRST SESSIONAL Examination are as follows:-

FIRST SESSIONAL EXAM						Pass/Fail
SUBJECT	M-I	AP	ENE	EG	CS	
Mark out of 20	12	13	16	15	05	pass
Attendance up to 17/01/2023	39	38	37	38	35	
<u>Remarks</u>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Average

Guru Nanak Institute of Engg. & Technology, Nagpur ACAD Letter To Parents



## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session: 2021-22)

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Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Session: 2021-22 Date: 19-12-21

To: Rajesh Narkhede

Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr/Ms. Aditya Narkhede Roll No. 32 Section A Studying in Year 2021-22 B. Tech. 1<sup>st</sup> Semester)

The ATTENDANCE & MARKS of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

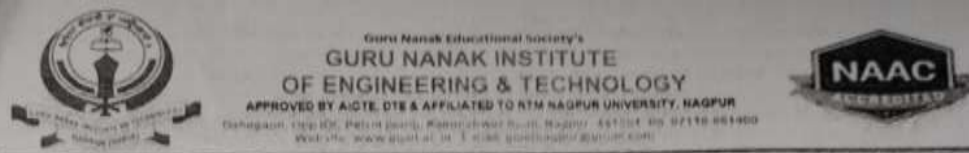
1 <sup>st</sup> SESSIONAL EXAM						
SUBJECT	M-1	AP	EHE	EH	CS	Pass/Fail
Mark out of 20	05	05	04	02	05	Fail
Attendance up to <u>18-11-21</u>	19	18	17	10	19	
Remarks	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					poor

Guru Nanak Institute of Engg. & Technology, Nagpur ACAD Letter To Parents



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Session: 2021-22

Date: 19-12-21

To,  
Ramesh Arodiya

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Pooja Arodiya  
 Roll No. 09 Section B Studying in  
Year 2021-22 B. Tech. 1<sup>st</sup> Semester

The ATTENDANCE & MARKS of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

1 <sup>st</sup> SESSIONAL EXAM						
SUBJECT	M-1	AP	EHE	EH	CS	Pass/Fail
Mark out of 20	04	09	08	04	10	Fail
Attendance up to <u>18-11-21</u>	19	18	18	19	19	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Pooja

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents





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To, Bilip Bhalerao Session: 2021-22 Date: 19-12-2021

**Subject:** Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Aayash Bhalerao Roll No. 20 Section A Studying in Year 2021-22B, Tech. 1<sup>st</sup> Semester

The ATTENDANCE & MARKS of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

1 <sup>st</sup> SESSIONAL EXAM						
SUBJECT	M-1	AP	EHE	FUI	CS	Pass/Fail
Mark out of 20	18	17	15	14	19	pass
Attendance up to 18-11-21	39	39	35	28	27	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Good



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**NAAC  
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To, Shubhash Nasare Session: 2021-22 Date: 19.12.2021

Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Shubham Nasare Roll No. 17 Section B Studying in Year 1<sup>st</sup> B. Tech. 1<sup>st</sup> Semester)

The ATTENDANCE & MARKS of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

SUBJECT	1 <sup>st</sup> SESSIONAL EXAM					Pass/Fail
	M-I	AP	EME	EOI	CS	
Mark out of 20	20	20	18	17	16	pass
Attendance up to <u>18.11.2021</u>	37	32	49	32	38	
Remarks	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Excellent

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents



## Department of Applied Sciences & Humanities

### B.Tech First Year

(Session: 2020-21)

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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Session: 2020-21 Date: 3-11-2020

To, paakhudas mohod

**Subject: *Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.***

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2020-21 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

*This is to inform you the progress of your ward Mr/Ms. Dhammanand Mohod Roll No. 15 Section A Studying in Year 2020-21 B. Tech. 1<sup>st</sup> Semester)*

The ATTENDANCE & MARKS of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

SUBJECT	1 <sup>st</sup> SESSIONAL EXAM						Pass/Fail
	AM	ENVI PM	ENVI. CHEM	BEE	RCE	ENG-I	
Mark out of 20	08	05	04	09	12	15	fail
Attendance up to <u>27-10-2020</u>	20	19	20	07	20	15	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.						poor performance

Guru Nanak Institute of Engg. & Technology, Nagpur
ACAD Letter To Parents



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**NAAC  
ACCREDITED**

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Session: 2020-21 Date: 3-11-2020

To, Pramanand Hanjwale

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2020-21 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Aditya Hanjwale Roll No. 07 Section A Studying in Year 20-21 B. Tech. 1<sup>st</sup> Semester

The **ATTENDANCE & MARKS** of the 1<sup>st</sup> **SESSIONAL** Examination are as follows:-

SUBJECT	1 <sup>st</sup> SESSIONAL EXAM						Pass/Fail
	AM	EMA-PH	ENOT-DE	BEE	BCE	EN-I	
Mark out of 20	05	04	04	02	01	09	Fail
Attendance up to 27.10.20	19	10	10	09	08	07	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.						poor performance

Guru Nanak Institute of Engg. & Technology, Nagpur ACAD Letter To Parents



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**NAAC**  
ACCREDITED

To, Pradiprao Patil Session: 2020-21 Date: 2-11-2020

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2020-21 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Divyani Patil Roll No. \_\_\_\_\_ Section A Studying in Year 20-21 B. Tech. 1<sup>st</sup> Semester

The **ATTENDANCE & MARKS** of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

1 <sup>st</sup> SESSIONAL EXAM							Pass/Fail
SUBJECT	AM	PHY	CHE	BEE	BCE	EUT-1	
Mark out of 20	20	20	15	14	12	11	pass
Attendance up to 27-10-20	37	37	49	35	35	30	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Good.	

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents





## Department of First Year Engineering

### B.Tech First Year

(Session: 2019-20)

Guru Nanak Educational Society's  
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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

**NAAC  
ACCREDITED**

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Session: 2019-20 Date: 24.11.19

To, Azjumaao chabande

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2019-20 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

*This is to inform you the progress of your ward Mr./Ms. Ashrajit chabande Roll No. 41 Section A Studying in Year 2019-20 B. Tech. 1<sup>st</sup> Semester*

The ATTENDANCE & MARKS of the \_\_\_\_\_ SESSIONAL Examination are as follows:-

SUBJECT	SESSIONAL EXAM						Pass/Fail
	AM	phy	chem	BEE	BCE	Eng-1	
Mark out of 20	09	09	02	02	01	05	fail
Attendance up to <u>10.11.19</u>	30	30	18	18	18	17	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.						poor





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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Date: 24.11.19

To, Raju Agrewal

Session: 2019-20

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2019-20 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Mohit Agrewal Roll No. 53 Section A Studying in Year 2019-20B. Tech. 1st Semester

The ATTENDANCE & MARKS of the 1st SESSIONAL Examination are as follows:-

SUBJECT	1st SESSIONAL EXAM						Pass/Fail
	AM	PHY	CHE	BEF	BCE	EW-1	
Mark out of 20	16	16	11	11	10	09	pass
Attendance up to <u>10.11.19</u>	42	30	28	42	28	30	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.						Average

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents



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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Date: 24.11.19

To, Rupchand Wadbudhe

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2019-20 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Achal Wadbudhe Roll No. 02 Section A Studying in Year 2019-20 B. Tech. 1st Semester)

The **ATTENDANCE & MARKS** of the 1st **SESSIONAL** Examination are as follows:-

1st SESSIONAL EXAM							Pass/Fail
SUBJECT	AM	PHY	CHE	BEE	BCF	EG-1	
Mark out of 20	16	11	11	15	14	10	pass
Attendance up to <u>10.11.19</u>	40	40	42	35	38	39	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Average	

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents



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Session: 2019-20

Date: 24-11-19

To,  
Vinayak Rao Sawwalakhe

**Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.**

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2019-20 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. parali  
Sawwalakhe Roll No. 09 Section A Studying in  
Year 2019-20 B. Tech. 1st Semester

The **ATTENDANCE & MARKS** of the 1st **SESSIONAL** Examination are as follows:-

		<u>1st</u> SESSIONAL EXAM					
SUBJECT	AM	PHY	CHEM	BEE	BCE	ES1-1	Pass/Fail
Mark out of 20	17	17	16	15	18	19	pass
Attendance up to <u>10.11.19</u>	42	42	42	45	45	42	
<u>Remarks</u>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.						Good

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents



## Department of First Year Engineering

### B.Tech First Year

(Session: 2018-19)

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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

Session: 2018-19      Date: 11.09.18

To, Shobhalal Samant

**Subject: *Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.***

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2018-19 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Shradha Samant Roll No. 30 Section A Studying in Year 2018-19 B. Tech. 1<sup>st</sup> Semester)

The **ATTENDANCE & MARKS** of the 1<sup>st</sup> **SESSIONAL** Examination are as follows:-

1 <sup>st</sup> SESSIONAL EXAM							Pass/Fail
SUBJECT	AM	EPHY	Chem	BEE	BCF	EB-1	
Mark out of 20	11	12	10	16	11	08	pass
Attendance up to <u>03.09.18</u>	40	40	40	32	32	32	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Average	

Guru Nanak Institute of Engg. & Technology, Nagpur
ACAD Letter To Parents



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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com



To, Session: 2018-19

Date: 11-09-18

Janaardn Hingnekar

**Subject:** Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.

**Dear Parents/Guardians,**

We hope this letter finds you in good health and high spirits. As the academic year 2018-19 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Vaishnavi Hingnekar Roll No. 38 Section A Studying in Year 2018-19 B. Tech. 1<sup>st</sup> Semester)

The ATTENDANCE & MARKS of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

1 <sup>st</sup> SESSIONAL EXAM							Pass/Fall
SUBJECT	AM	PHY	CHEM	BEE	BCE	EU-1	
Mark out of 20	11	14	11	11	12	11	pass
Attendance up to <u>03-09-18</u>	32	32	33	35	32	32	
<b>Remarks</b>	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Average	

Guru Nanak Institute of Engg. & Technology, Nagpur

ACAD Letter To Parents



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 Website: www.gniet.ac.in E-mail: gnietnagpur@gmail.com

To, Bandu Wankhede Session: 2018-19 Date: 11-09-18

Subject: Progress & Attendance Report (First Sessional Result, Monthly Attendance) & Rules to Follow Strictly.

Dear Parents/Guardians,

We hope this letter finds you in good health and high spirits. As the academic year 2018-19 progresses, we wanted to address a matter of utmost importance regarding your child's attendance at the college as per university norms. Recently, we have noticed a decline in the attendance of some students, and we believe it is essential to communicate the significance of regular attendance and the university's (RTMNU) policy regarding it.

This is to inform you the progress of your ward Mr./Ms. Soundarya Wankhede Roll No. 33 Section A Studying in Year 2018-19 B. Tech. 1<sup>st</sup> Semester

The ATTENDANCE & MARKS of the 1<sup>st</sup> SESSIONAL Examination are as follows:-

1 <sup>st</sup> SESSIONAL EXAM							Pass/Fail
SUBJECT	AMI	E-phy	E-chem	BEE	BCE	EW-1	
Mark out of 20	18	14	16	13	08	18	pass
Attendance up to <u>03-09-18</u>	40	38	38	38	40	32	
Remarks	1) Poor : Improve your performance. 2) Average : Try to perform better. 3) Good : Try to be excellent in performance. 4) Excellent : Keep it up.					Average	

Guru Nanak Institute of Engg. & Technology, Nagpur ACAD Letter To Parents

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY  
Dahegaon, Kalmeshwar Road, Nagpur-441 501.

DEPARTMENT OF APPLIED SCIENCES & HUMANITIES

Session 2021-22 (EVEN)  
**First Sessional Examination**

**Subject Code: BSE2-3T**  
**Subject Name : Applied Chemistry**  
**Time : 01 Hours**

**Subject Abbr. AC**  
**Year/Sem. : 1st/ II**  
**Maximum Marks: - 20**

---

**INSTRUCTIONS TO CANDIDATE:**

- 1) All questions carry marks as indicated. **Year/Sem. : 1st/ II**
- 2) Solve TWO questions as follows:  
(i) Q. No. 1 OR Q. No. 2 (ii) Q. No. 3 OR Q. No. 4
- 3) Assume suitable data wherever necessary.
- 4) Illustrate your answer wherever necessary with the help of neat sketches

**Que 1)**

A) What is green chemistry? Explain its principal and explain any two of them?

**6M**

B) Define and Explain Carbon Sequestrations and carbon credits?

**4M**

**OR**

**Que 2)**

A) What do you Atom Economy? Calculate the percentage of atom economy of following

Ethanol,  $\text{CH}_3\text{CH}_2\text{OH}$ , can be produced by the fermentation of glucose,  $\text{C}_6\text{H}_{12}\text{O}_6$ :



ii) Define biopolymers and Explain applications of Polyadipic acid **6M**

B) Write down the application of

i) DMC (dimethyl carbonate)

ii) Supercritical Carbon Dioxide **4M**

**Que 3) A)** Draw the energy level diagram of  $\text{NO}^+$  and  $\text{NO}^-$  and calculate bond order. **6M**

**B) Write a short note on**

1) Effective Nuclear Charge 2) Electro negativity **4M**

**OR**

**Que 4) A) 1)** Explain Crystal field theory **2)** Polarization **6M**

**Que 4) B) 1)** Calculate effective nuclear charge experienced by 4s electrons of K=19 **2M**

**2)** Discuss various types of magnetism with suitable examples. **2M**





# Guru Nanak Institute of Engineering & Technology

Dahegaon, Kalmeshwar Road, Nagpur-441501



## Department of First Year Engineering

Session: 2021-2022  
First Semester (ODD)  
First Sessional Examination  
Basics of Civil and Mechanical Engineering

Time: 01 hour

Marks 20

Note: 1.Solve Questions number 1 or Question No. 2 and  
2 .Solve Question number 3 or Question No. 4

Question 1. a) Define Civil Engineering and Explain Role of Civil Engineering in Infrastructural Development. (05)

b) what is Cement and Explain Different Grades of cement. (05)

OR

Question 2. a). Explain in Brief Principles of Planning Related to Building. (05)

b) Write short Notes on Byelaws Related to Building. (05)

Question 3 a) What do you mean by Eco-friendly Materials and Explain it's Characteristics. (05)

b) Explain Different Types of Concrete and why RMC is called as Green Concrete. (05)

OR

Question 4 a) Define Surveying and Explain Principle of Surveying. (05)

b) What is Transportation Engineering and Explain Role of Transportation Engineering in Nation Development. (05)

Best of Luck



**HoD**  
**FY, GNIET**

# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BSE1-5T /Engg Graphics/KNW

## First Sessional Exam (Session 2021-22)

Date of Exam:- 25/02/2022

Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B

Max. Marks: - 20 M

Subject Name: **ENGINEERING GRAPHICS**

Time: - 10:00 am -11:00 a.m. (1 Hours)

### INSTRUCTIONS TO CANDIDATE:

- 1) All questions carry marks as indicated.
- 2) Solve TWO questions as follows:  
(i) Q. No. 1 **OR** Q. No. 2 (ii) Q. No. 3 **OR** Q. No. 4
- 3) Assume suitable data wherever necessary.
- 4) Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	The foci of an ellipse are 110 mm apart. The minor axis is 70 mm long. Determine the length of the major axis and draw half ellipse by rectangle method and other half by concentric circles method.	5
	b)	An artificial satellite is orbiting around the Earth. The major axis of its orbit is 40,000 km and the minor axis is 30,000 km. Draw the orbit of the satellite.	5
		<b>OR</b>	
2.	a)	A boy standing on the terrace of a building of 15 m height throws a ball, which has its highest flight and just crosses a tree of 25 m height. Trace the path of the ball, if the distance between the building and the tree is 8 m.	5
	b)	A cricket ball thrown up in air, reaches a maximum height of 10 meters and falls on the ground at a distance of 20 meters and falls on the ground at a distance of 20 meters from the point of throwing. Draw the path followed by ball. Assume the point of throw to be on the ground.	5
3.	a)	Draw the involutes of composite figure consisting of semicircle and half hexagon of 35 mm sides & radius.	5
	b)	Draw the involute of a regular hexagon of side 20 mm. Also draw involute of a regular pentagon of side 25 mm	5
		<b>OR</b>	
4.	a)	A wheel of 1.5 m in diameter has 8 spokes connecting the rim and the hub. The wheel is rotating in anticlockwise direction at 30 rev/min. A particle of dust starts from the centre and travels along a spoke with uniform velocity and reaches a rim after 2 seconds. Trace the path of partical.	5
	b)	A coin of 35 mm diameter rolls over dining table without slipping. A point on the circumference of the coin is in contact with the table surface in the begining and afrt one complete revolution. Draw the curve traced by the point.	5

# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BSE1-5T /Engg Graphics/KNW

**First Sessional Exam (Session 2021-22)**

Date of Exam:- **25/02/2022**

Year/Sem.: **1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B**

Max. Marks: - **20 M**

Subject Name: **ENGINEERING GRAPHICS**

Time: - 10:00 am -11:00 a.m. (1 Hours)

## INSTRUCTIONS TO CANDIDATE:

- 1) All questions carry marks as indicated.
- 2) Solve TWO questions as follows:  
(i) Q. No. 1 **OR** Q. No. 2 (ii) Q. No. 3 **OR** Q. No. 4
- 3) Assume suitable data wherever necessary.
- 4) Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	The foci of an ellipse are 110 mm apart. The minor axis is 70 mm long. Determine the length of the major axis and draw half ellipse by rectangle method and other half by concentric circles method.	5
	b)	An artificial satellite is orbiting around the Earth. The major axis of its orbit is 40,000 km and the minor axis is 30,000 km. Draw the orbit of the satellite.	5
		<b>OR</b>	
2.	a)	A boy standing on the terrace of a building of 15 m height throws a ball, which has its highest flight and just crosses a tree of 25 m height. Trace the path of the ball, if the distance between the building and the tree is 8 m.	5
	b)	A cricket ball thrown up in air, reaches a maximum height of 10 meters and falls on the ground at a distance of 20 meters and falls on the ground at a distance of 20 meters from the point of throwing. Draw the path followed by ball. Assume the point of throw to be on the ground.	5
3.	a)	Draw the involutes of composite figure consisting of semicircle and half hexagon of 35 mm sides & radius.	5
	b)	Draw the involute of a regular hexagon of side 20 mm. Also draw involute of a regular pentagon of side 25 mm	5
		<b>OR</b>	
4.	a)	A wheel of 1.5 m in diameter has 8 spokes connecting the rim and the hub. The wheel is rotating in anticlockwise direction at 30 rev/min. A particle of dust starts from the centre and travels along a spoke with uniform velocity and reaches a rim after 2 seconds. Trace the path of particle.	5
	b)	A coin of 35 mm diameter rolls over dining table without slipping. A point on the circumference of the coin is in contact with the table surface in the beginning and after one complete revolution. Draw the curve traced by the point.	5

**\*\* Best of Luck \*\***

# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BSE2-2T /Applied Physics/SG

## First Sessional Test (2021-22)

Date of Exam:-22/02/2022

Subject Name: **Applied Physics**

Time: - 10:00am-11am (1 Hours)

Year/Sem.: **1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B**

Maximum Marks: - **20 M**

### INSTRUCTIONS TO CANDIDATE

- 1) All questions carry marks as indicated.
- 2) Solve **ANY One from Q1 or Q2 & Q3 or Q4**
- 3) Assume suitable data wherever necessary

- Q.1. (a)** State Compton effect. (1M)
- (b)** Explain what will happen when X- ray photon collides with  
(1) Free electron and (2) Tightly bound electron (3M)
- (c)** Write down the equations of energy and momentum conservation during collision of an X-Ray photon with a free electron. (3M)
- (d)** X-ray of  $0.5\text{\AA}$  are scattered by free electron in a carbon block through  $85^\circ$ . Find the wavelength of the scattered photon & energy of recoil electron. (3M)

**OR**

- Q.2. a)** Show how the Bohr's quantization of angular momentum follows the concept of matter waves (3M)
- b)** Discuss in detail an experiment that confirms the existence of de- Broglie matter waves. (4M)
- c)** What would be the de-Broglie wavelength associated with:  
i) 2000 kg car having a constant speed of 25 m/s  
ii) 80 kg scooter having a speed of 10 m/s. (3M)

- Q.3. (a)** Explain & deduce Bragg's law for X-ray diffraction. (4M)
- (b)** What are Miller indices? Draw the crystal planes of Miller indices (012) & (201) in cubic unit cell. (3M)
- (c)** Aluminum has FCC structure. Its density is  $2700\text{ kg/m}^3$ . Calculate unit cell dimension and atomic diameter of Aluminum. (3M)

**OR**

- Q.4 a)** Define i) Basis ii) Unit cell. (2M)
- b)** Deduce a relation between interplanar distance and Miller indices of the plane of a cubic system. (4M)
- c)** Define Atomic Packing Fraction. Calculate APF and Void space for BCC and FCC unit cell (4M)

### LIST OF CONSTANTS:

- Velocity of light(c) =  $3 \times 10^8$  m/sec.
- 1 electron volt =  $1.6 \times 10^{-19}$  J
- Charge of electron (e) =  $1.6 \times 10^{-19}$  C
- Mass of electron (m) =  $9.1 \times 10^{-31}$  Kg
- Mass of proton ( $m_p$ ) =  $1.67 \times 10^{-27}$  Kg
- Planck's constant (h) =  $6.63 \times 10^{-34}$  Js.
- Avogadro's constant ( $N_A$ ) =  $6.023 \times 10^{26}$  /K mole

# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BSE2-2T /Applied Physics/SG

## First Sessional Test (2021-22)

Date of Exam:-22/02/2022

Subject Name: **Applied Physics**

Time: - 10:00am-11am (1 Hours)

Year/Sem.: **1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B**

Maximum Marks: - **20 M**

### INSTRUCTIONS TO CANDIDATE

- 4) All questions carry marks as indicated.
- 5) Solve **ANY One from Q1 or Q2 & Q3 or Q4**
- 6) Assume suitable data wherever necessary

- Q.1. (a)** State Compton effect. (1M)
- (b)** Explain what will happen when X- ray photon collides with  
(1) Free electron and (2) Tightly bound electron (3M)
- (c)** Write down the equations of energy and momentum conservation during collision of an X-Ray photon with a free electron. (3M)
- (d)** X-ray of  $0.5\text{\AA}$  are scattered by free electron in a carbon block through  $85^\circ$ . Find the wavelength of the scattered photon & energy of recoil electron. (3M)

**OR**

- Q.2. a)** Show how the Bohr's quantization of angular momentum follows the concept of matter waves (3M)
- b)** Discuss in detail an experiment that confirms the existence of de- Broglie matter waves. (4M)
- c)** What would be the de-Broglie wavelength associated with:  
i) 2000 kg car having a constant speed of 25 m/s  
ii) 80 kg scooter having a speed of 10 m/s. (3M)

- Q.3. (a)** Explain & deduce Bragg's law for X-ray diffraction. (4M)
- (b)** What are Miller indices? Draw the crystal planes of Miller indices (012) & (201) in cubic unit cell. (3M)
- (c)** Aluminum has FCC structure. Its density is  $2700\text{ kg/m}^3$ . Calculate unit cell dimension and atomic diameter of Aluminum. (3M)

**OR**

- Q.4 a)** Define i) Basis ii) Unit cell. (2M)
- b)** Deduce a relation between interplanar distance and Miller indices of the plane of a cubic system. (4M)
- c)** Define Atomic Packing Fraction. Calculate APF and Void space for BCC and FCC unit cell (4M)

### LIST OF CONSTANTS:

- Velocity of light(c) =  $3 \times 10^8$  m/sec.
- 1 electron volt =  $1.6 \times 10^{-19}$  J
- Charge of electron (e) =  $1.6 \times 10^{-19}$  C
- Mass of electron (m) =  $9.1 \times 10^{-31}$  Kg
- Mass of proton ( $m_p$ ) =  $1.67 \times 10^{-27}$  Kg
- Planck's constant (h) =  $6.63 \times 10^{-34}$  Js.
- Avogadro's constant ( $N_A$ ) =  $6.023 \times 10^{26}$  /K mole

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BES1-4T / COMMUNICATION SKILLS/AV

**First Sessional Test (2021-22)**Date of Exam:-**24-02-2022**Subject Name: **COMMUNICATION SKILLS**Year/Sem.: **1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B**Time: - 10:00am-11am (**1 Hours**)Max. Marks: - **20 M****INSTRUCTIONS TO CANDIDATE:**

- 1) All questions carry marks as indicated.
- 2) Solve TWO questions as follows:  
(i) Q. No. 1 **OR** Q. No. 2 (ii) Q. No. 3 **OR** Q. No. 4
- 3) Assume suitable data wherever necessary.
- 4) Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	Explain the process of Communication (Cycle) with Diagram.	6
	b)	Explain the Types of Non-Verbal Communication.	4
		<b>OR</b>	
2.	a)	Write in Detail about the Advantages and Disadvantages of Oral Communication.	6
	b)	Explain the various Barriers to Communication.	4
3.	a)	Write a Notice & Agenda of a Business Meeting in proper format.	6
	b)	Write a note on Importance of Listening Skills in communication.	4
		<b>OR</b>	
4.	a)	Explain the process and Techniques of Group Discussion.	6
	b)	Discuss the types of Listening skills in business communication.	4

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Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BES1-4T / COMMUNICATION SKILLS/AV

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**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BSE1-1T /Mathematics-1/SC

**First Sessional Test (2021-22)**

Date of Exam:- 21/02/2022

Subject Name: **Mathematics-1**

Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B

Time: - 10:00am-11am (1 Hours)

Max. Marks: - 20 M

**INSTRUCTIONS TO CANDIDATE:**

- 1) All questions carry marks as indicated.
- 2) Solve TWO questions as follows:  
(i) Q. No. 1 **OR** Q. No. 2 (ii) Q. No. 3 **OR** Q. No. 4
- 3) Assume suitable data wherever necessary.
- 4) Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	Test the consistency and solve. $5x + 3y + 7z = 4$ $3x + 26y + 2z = 9$ $7x + 2y + 10z = 5$	6
	b)	Find the inverse of matrix by partitioning. $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 5 \\ 3 & 5 & 6 \end{bmatrix}$	4
<b>OR</b>			
2.	a)	Solve the system of Equation by Adjoint method. $3x + y + z = 8$ $2x - 2y + 3z = 7$ $x - y + 2z = 5$	6
	b)	Find the rank of matrix. $\begin{bmatrix} 1 & -1 & -2 & -3 \\ 4 & 1 & 0 & 2 \\ 0 & 3 & 1 & 2 \\ 0 & 1 & 0 & 2 \end{bmatrix}$	4
3.	a)	Solve. $(1 + e^{x/y})dx + (1 - \frac{x}{y})e^{x/y}dy = 0$	6
	b)	Solve $(1 + x)\frac{dy}{dx} - \tan y = (1 + x)^2 e^x \sec y$	4
<b>OR</b>			
4.	a)	Solve. $\frac{dy}{dx} + y \tan x = y^2 \sec x$	6
	b)	Solve. $(1 + x^2)\frac{dy}{dx} + y = e^{\tan^{-1}x}$	4

**GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY**

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BSE1-1T /Mathematics-1/SC

**First Sessional Test (2021-22)**

Date of Exam:- 21/02/2022

Subject Name: **Mathematics-1**

Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B

Time: - 10:00am-11am (1 Hours)

Max. Marks: - 20 M

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	b)	Find the rank of matrix. $\begin{bmatrix} 1 & -1 & -2 & -3 \\ 4 & 1 & 0 & 2 \\ 0 & 3 & 1 & 2 \\ 0 & 1 & 0 & 2 \end{bmatrix}$	4
3.	a)	Solve. $(1 + e^{x/y})dx + (1 - \frac{x}{y})e^{x/y}dy = 0$	6
	b)	Solve $(1 + x)\frac{dy}{dx} - \tan y = (1 + x)^2 e^x \sec y$	4
<b>OR</b>			
4.	a)	Solve. $\frac{dy}{dx} + y \tan x = y^2 \sec x$	6
	b)	Solve. $(1 + x^2)\frac{dy}{dx} + y = e^{\tan^{-1}x}$	4





# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2021-2022/ODD/ BES1-3T /Energy and Environment/EM

## First Sessional Test (2021-22)

Date of Exam:-23/02/22

Subject Name: **Energy and Environment**

Year/Sem.: 1<sup>st</sup> /1<sup>st</sup> Sec.:- A & B

Time: - 10:00am-11am (1 Hours)

Max. Marks: - 20 M

### INSTRUCTIONS TO CANDIDATE:

- 1) All questions carry marks as indicated.
- 2) Solve TWO questions as follows:  
(i) Q. No. 1 **OR** Q. No. 2 (ii) Q. No. 3 **OR** Q. No. 4
- 3) Assume suitable data wherever necessary.
- 4) Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	Give an account of the determination of calorific value of a gaseous fuel by Boy's gas calorimeter and draw a well labelled diagram of it.	6
	b)	Calculate the Gross and Net calorific value of coal having the following composition: C = 80%, H = 8%, S = 1%, N = 2% and ash = 6%, using Dulong's formula, Given the latent heat of steam = 587 cal/g.	4
		<b>OR</b>	
2.	a)	During determination of calorific value of a coal sample by Bomb calorimeter following results were recorded- i) Weight of fuel burnt = 1.80 g ii) Water equivalent of calorimeter = 450 g iii) weight of water taken in calorimeter = 2400 g iv) Rise in temperature of water = 5.2°C vi) Acid correction = 20 cal vii) Fuse wire correction = 4 cal viii) Cooling correction = 0.24 °C ix) Cotton Thread correction = 5 cal If the coal contains 6.5% Hydrogen, calculate the GCV and NCV of coal sample provided that the Latent heat of steam condensed is 587 cal/g.	6
	b)	What is the significance of ultimate analysis of a coal?	4
3.	a)	Write Short Notes on – (i) Biodiesel (ii) Non-conventional sources of energy.	6
	b)	Discuss the various corrections applied during determination of calorific value of solid fuel by Bomb calorimeter.	4
		<b>OR</b>	
4.	a)	What is cracking? Discuss with well labelled diagram of a fluid bed catalytic cracking.	6
	b)	Define fractional distillation. Draw well labelled diagram of fractionating tower and describe the process.	4



GURU NANAK INSTITUTE OF TECHNOLOGY

Kalmeshwar Road Dahegaon, Nagpur – 441501

NAAC Accredited

Session 2018-19 (ODD SEM)

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Subject – Applied Physics

Assignment no.4 (Electron optics)



(Write any five Questions. )

**Que:1)** What is Acceptance angle ? Derive expression for acceptance angle and numerical aperture in optical fiber.

**Que:2)** Differentiate between step index and graded index fiber or Classify on the basis of Refractive index profile,

**Que:3)** Derive an expression for angle and numerical aperture of optical fiber.

**Que:4)** Discuss any one application of an optical fiber as sensor.

**Que:5)** Write note on Modes of propagation of light.

**Que:6)** What is attenuation and write down Causes of attenuation.

**Que:7)** Calculate the angle of acceptance and refractive index for a given optical fiber if the refractive index for a given optical fiber if the refractive indices of the core and cladding are 1.563 and 1.498 respectively.

**Que:8)** Write application of sensor (a) Temperature Sensor (b) Smoke Detector or pollution detector (c) Liquid level sensor .



# GURU NANAK INSTITUTE OF TECHNOLOGY

Kalmeshwar Road Dahegaon, Nagpur – 441501

NAAC Accredited

Session 2019-20 (ODD SEM)

DEPARTMENT OF FIRST YEAR ENGINEERING

Subject – Applied Physics

Assignment no.4(Electron optics)



(Write any five Questions. )

**Que:1)** What is Acceptance angle ? Derive expression for acceptance angle and numerical aperture in optical fibre.

**Que:2)** Differentiate between step index and graded index fibre or Classify on the basis of Refractive index profile,

**Que:3)** Derive an expression for angle and numerical aperture of optical fibre.

**Que:4)** Discuss any one application of an optical fibre as sensor.

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**Que:8)** Write application of sensor (a) Temperature Sensor (b) Smoke Detector or pollution detector (c) Liquid level sensor .



# GURU NANAK INSTITUTE OF TECHNOLOGY

Kalmeshwar Road Dahegaon, Nagpur - 441501

NAAC Accredited

Session 2019-20 (ODD)

DEPARTMENT OF FIRST YEAR ENGINEERING

Subject – Energy And Environment

UNIT V- Advanced Materials for Sustainable Development

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## Assignment no.2

- Q.1) What is cracking? Discuss with well labeled diagram a fluid bed catalytic cracking
- Q.2) Difference between **Catalytic** and **Thermal** Cracking
- Q.3) Difference between **Cetane** No and **Octane** No
- Q.4) The Coal Containing C= 76% , H<sub>2</sub>=5%, O= 3.5% N<sub>2</sub>= 3%  
S=1.5% and remaining ash is fired in a furnace.  
i) Minimum theoretical air required (by weight) for combustion of 1 Kg of fuel.  
ii) Percentage composition of dry flue gas by mass if 20% excess air is used
- Q.5) A boiler is fired with a coal having following composition  
C= 74%, H=6.8%, O=13.2%,N=2.1% S=1.0% & ash 2.9%  
Calculate  
i) Minimum theoretical air required (by weight) for combustion of 1 Kg of fuel.  
ii) Percentage composition of dry flue gas by mass if 20% excess air is used.
- Q.6) 100 m<sup>3</sup> of a gas having the volumetric composition  
H<sub>2</sub>= 44%, CO =6%,CH<sub>4</sub>= 36%, Ethylene 4 %, N<sub>2</sub>=6.5%,moisture=3.5%  
has to be burnt for heating a furnace.  
Calculate  
i) The minimum weight of air required for combustion of this gas.  
ii) If 50 % excess air is used find the volumetric composition of flue gas formed.



# GURU NANAK INSTITUTE OF TECHNOLOGY

Kalmeshwar Road Dahegaon, Nagpur - 441501

NAAC Accredited

Session 2019-20 (ODD)

**DEPARTMENT OF FIRST YEAR ENGINEERING**

**Subject – Energy And Environment**

**UNIT V- Advanced Materials for Sustainable Development**

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## **Assignment no.5**

- Q.1) What are Composite materials ? How they are Classified ? Give their Important Application
- Q.2) What are Liquid Crystal Polymer? Give Different phases of Liquid Crystal Polymer
- Q.3) What are Biodgradable polymers? Give Synthesis and Application of Poly lactic Acid
- Q.4) What are Nanomaterials? Give Their Application in the field of energy storage.
- Q.5) What are the Conducting polymers? Give the Structure and explain properties and Applications of Polypyrol

# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2022-2023/ODD/ BSE1-6T /Basic of civil and mechanical engineering/PM

## First Sessional Test (2022-23)

Date of Exam:-4/1/22

Subject Name:BCME

Year/Sem.: 1<sup>st</sup>/1<sup>st</sup> Sec.: -A,B,C,D

Time: - 10:00am-11am (1 Hours)

Max. Marks: - 20 M

### INSTRUCTIONS TO CANDIDATE:

- 1) All questions carry marks as indicated.
- 2) Solve TWO questions as follows:  
(i) Q. No. 1 **OR** Q. No. 2 (ii) Q. No. 3 **OR** Q. No. 4
- 3) Assume suitable data wherever necessary.
- 4) Illustrate your answer wherever necessary with the help of neat sketches.

1.	a)	What are the points to be considered in selecting the site of the building?	6
	b)	Enlist Types of buildings and explain any 3.	4
		<b>OR</b>	
2.	a)	What is building Planning, explain its factors and principles of it? (Any 3 principles)	6
	b)	Introduction to civil engineering.	4
		<b>OR</b>	
3.	a)	Write components of building its difference with a Diagram.	6
	b)	Explain cement and its uses.	4
		<b>OR</b>	
4.	a)	What is the Role of Civil Engineer in Infrastructural Development?	6
	b)	What is cement concrete and its uses?	4

# GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

Dahegaon, Kalmeshwar Road, Nagpur-441 501.

GNIET/2022-2023/ODD/ BSE1-6T /Basic of civil and mechanical engineering /PM

## First Sessional Test (2022-23)

Date of Exam:-4/1/22

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Guru Nanak Institute of Engineering & Technology

Dahegaon, Kalmeshwar Road, Nagpur-441501



**Department of First Year Engineering**

Session: 2018-19

First Semester (ODD)

**Question Bank for unit No1 and Unit No. 2**

**BCME**

- 1) What are different Scope of Civil Engineerig and specify there importance.
- 2] State principle of planning related to building and Explain any five
- 3] Define FSI , built up Area, carpet area and super built up Area.
- 4] What do u mean about Orientation of building and Explain Factor on which Orientation will depend.
- 5] Explain in details Aspects of Green Building.
- 6] Explain Urban Planning and its Importance in Civil Engineering.
- 7] Explain in details about Different Types of Building.
- 8) write short notes on different types of foundation.
- 9) Define Civil Engineering and Explain Role of Civil Engineering in Infrastructural Development.
- 10) Explain in Short Byelaws Related to Building.
- 11) What do you mean about Eco-friendly Materials Explain any three Eco-friendly Materials use in construction project.
- 12) Explain difference between Load Bearing Structures and Frame structure.
- 13) Explain Different types of Materials use in construction.
- 14) what is cement Explain it's feild Test.
- 15) Explain classification of cements.
- 16) write short notes on Field Test of Bricks.
- 17) What are the Defferent types of concrete.
- 18) why RMC is called as Green concrete.
- 19) Explain Different Types of steel use in construction.
- 20) Define Surveying and Explain Principle of surveying.
- 22) Explain Different Types of Map.
- 23) write short notes on GIS and GPS.
- 24) Define Transportation Engineering and Explain it's Role in Nation Development.
- 25) Enlist modern Methods used in Surveying.
- 26) Explain Advance method of Surveying
- 27) Write short notes on Modes of Transportation.
- 28) Explain various classification of Roads.
- 29) Differentiate Between Flexible Pavement and Rigid Pavement.
- 30) What are the causes of Accident on Road.

Subject Teacher  
Prof. Dilip L Budhlani  
Assistant Professor  
GNIET Nagpur.



**GURU NANAK INSTITUTE OF TECHNOLOGY,  
NAGPUR**

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Dahegaon, Kalmeshwar Road, Nagpur – 441501

**Session: 2021-22**

SECOND UNIT TEST EXAMINATION

**Subject: Energy and Environment**

Year/Sem: B.Tech First semester (C.B.C.S.)

**Time: - 1 Hr**

**Max Marks: - 20 MARKS**

**Date: 04/03/2022**



**GURU NANAK INSTITUTE OF TECHNOLOGY,  
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Dahegaon, Kalmeshwar Road, Nagpur – 441501

**Session: 2021-22**

SECOND UNIT TEST EXAMINATION

**Subject: Energy and Environment**

Year/Sem: B.Tech First semester (C.B.C.S.)

**Time: - 1 Hr**

**Max Marks: - 20 MARKS**

**Date:04/03/2022**



**Multiple Choice questions**

- Which of the following fuel does not requires air for its combustion?  
a) Coal b) Cow dung cake c) Diesel d) Charcoal
- Which kind of liquid fuels are risky to store?  
a) Volatile b) Inflammable and volatile  
c) Flammable and non-volatile d) Inflammable and Non volatile
- Petroleum derivatives are mainly ..... Chemicals  
a) Hydrocarbon b) Gasoline c) Alcoholic d) Aldehyde
- In the fraction Distillation of crude oil , where is the hottest part of the Fractionating column  
a) The top b) Middle c) The bottom d) None of these
- Which Fraction leaves the tower at the very top  
a) Refinery gases b) Petrol c) fuel oil d) Diesel
- Which is the main compound of Natural gas  
a) Methane b) Propane c) Butane d) CO<sub>2</sub>
- What was Coal originally formed from?  
a) Remains of Dead sea Creatures b) Sediment of ancient Rock  
c) Remains of Animal d) Remains of Ancient rocks
- What conditions are Used for Cracking?  
a) Low temperature , low pressure b) High temp, Catalyst  
c) High pressure , catalyst d) none of these
- What are the typical products of Cracking?  
a) Two short Alkanes b) A short Alkene and short alkane  
c) A variety of short Alkane d) None of these

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11. Which of the following compound is considered for calculating the octane number?  
 a) iso-heptane b) n-Hexane c) Iso-octane d) Iso- butane
12. The Knocking characteristics of gasoline fuel are expressed in terms of cetane number.  
 a) True b) false
13. By which process does the knocking starts in Diesel engine?  
 (a) Due to sudden spontaneous combustion of fuel  
 (b) Due to delay in ignition of fuel  
 (c) Due to rise in temp of diesel  
 (d) Due to parts of Diesel engine
14. Petrol is distilled at a temperature in range of .....  
 a) 30 to 65<sup>o</sup> C b) 65 to 120<sup>o</sup> C c) 220 to 350<sup>o</sup> C d) 350 to 450<sup>o</sup> C
15. Which of the following is the lightest and most Volatile liquid fuel?  
 a) Diesel b) Petrol c) Uncondensed gas d) fuel oil
16. A mixture containing 60 % cetane and 40% iso octane will have  
 a) Cetane number 60 b) Cetane number 40  
 c) octane number 60 d) None of these
17. The least Polluting fuel for vehicles is CNG?  
 a) True b) False
18. Boiling point of Kerosene?  
 a) 250-320<sup>o</sup> C b) 40-120<sup>o</sup> C c) 180-250<sup>o</sup> C d) 320-400<sup>o</sup> C
19. The Process by which Petroleum is refined is called .....  
 a) reduction b) Oxidation  
 c) Decomposition d) Fractional Distillation
20. The petroleum gas liquefied by applying pressure on it is called  
 a) CNG b) Biodiesel c) LPG d) Pentane
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**Session: 2021-22**

SECOND UNIT TEST EXAMINATION

**Subject: Energy and Environment**

Year/Sem: B.Tech First semester (C.B.C.S.)

**Time: - 1 Hr**

**Max Marks: - 20 MARKS**

**Date: 04/03/2022**



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### INSTRUCTIONS TO CANDIDATES.

- (1) All questions carry marks as indicated.
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- (3) Assume suitable data wherever necessary.
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Solve Que. No.1 A,B OR Que. No1, C,D  
Que. No. 2 E,F OR Que. No 2 G,H

#### Q.1 A) Write short notes on

i) Renewable Sources of Energy ii) Types of Energy

6M

B) Significance of Ultimate Analysis of Coal

4M

OR

Q.1C) Define calorific value and explain its determination by Bomb calorimeter. 6M

Q.1.D) During the determination of calorific value of gaseous fuel by Boys calorimeter ,the following results were recorded.

- i)Volume of gaseous fuel burnt at NTP =0.093 m<sup>3</sup>
- ii)Weight of water used for cooling the combustion products =31kg
- iii)Wt of steam condensed=0.030 kg
- iv)Temperature of inlet water=26.2 °C
- v)Temperature of outlet water=36.3 °C

Determine G.C.V. and N.V.C. of gaseous fuel per cubic meter at NTP. 4M



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2 E) Write a short note on Non-conventional sources of energy.

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Q.2 F) Explain the construction and working of Boys calorimeter used for determination of calorific value of gaseous fuel.

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Q.2.G) Calculate GCV and NCV of a coal sample using Following observation of a bomb calorimeter experiment

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- i) Weight of water taken in calorimeter = 2550g
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- iii) Weight of coal use = 1.30g
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- vi) Acid correction = 59 cal
- vii) Cotton thread correction = 4 cal
- viii) Cooling correction = 0.040 °C
- ix) Hydrogen in coal = 4%
- x) Latent heat of steam = 587Cal/g

Q.20.H) A coal sample on analysis gives the following result C= 85% , H= 8 % , S= 1 % N= 2 % and Ash= 4 %.

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(By Dulong's Formula)

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**Department of Applied Sciences & Humanities**  
**(B.E. First Year)**

Session: 2020-2021  
First Semester (ODD)

**Question Bank for First Sessional Test (Unit-II & Unit-III)**

Subject Teacher: **Prof. Sadaf Gauhar**  
Subject Name: **Applied Physics**

Date of Exam: **-18/02/2021**  
Year/Sem.: **1<sup>st</sup> /1<sup>st</sup>**      **Sec.: - A & B**

- 1) State Compton Effect.
- 2) Explain what will happen when X- ray photon collides with
  - I. Free electron
  - II. Tightly bound electron
- 3) Write down the equations of energy and momentum conservation during collision of an X-Ray photon with a free electron.
- 4) X-ray of  $0.5\text{Å}$  are scattered by free electron in a carbon block through  $85^\circ$ . Find the wavelength of the scattered photon & energy of recoil electron.
- 5) Show how the Bohr's quantization of angular momentum follows the concept of matter waves
- 6) Discuss in detail an experiment that confirms the existence of de- Broglie matter waves.
- 7) What would be the de-Broglie wavelength associated with:
  - i) 2000 kg car having a constant speed of 25 m/s
  - ii) 80 kg scooter having a speed of 10 m/s.
- 8) Explain & deduce Bragg's law for X-ray diffraction.
- 9) What are Miller indices? Draw the crystal planes of Miller indices (012) (100) (020) (123) (111) & (201) in cubic unit cell.
- 10) Aluminum has FCC structure. Its density is  $2700 \text{ kg/m}^3$ . Calculate unit cell dimension and atomic diameter of Aluminum.
- 11) Define i) Basis    ii) Unit cell.
- 12) Deduce a relation between interplanar distance and Miller indices of the plane of a cubic system.
- 13) Define Atomic Packing Fraction. Calculate APF and Void space for BCC and FCC unit cell.
- 14) In case of high atomic no. scatterer element intensity of unmodified wavelength is higher than that of modified wavelength. Explain.
- 15) Derive expression for atomic radius and atomic packing fraction (A.P.F.) for BCC and FCC structures and show that percentage void space is more in BCC compared to FCC structure.
- 16) Molybdenum has BCC structure. Its density is  $10.2 \times 10^3 \text{ kg/m}^3$  and its atomic wt. is 95.94. Determine radius of Molybdenum atom.
- 17) The  $d_{110}$  interplaner spacing in a BCC metal vanadium is  $2.15 \text{ Å}$ . Find its lattice constant.
- 18) In Compton Effect, a photon is scattered by a free electron at rest through an angle of  $90^\circ$ . What is the energy of scattered photon if the wavelength of incident photon is  $12 \text{ nm}$ .