



**ESTD. : 2013**

Guru Gobind Singh Foundation's  
Guru Gobind Singh College of  
Engineering and Research Centre,  
Nashik.

# Prelim Exams Records (Sample)

Notice

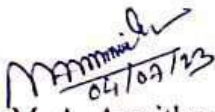
**Preliminary Exam TimeTable**

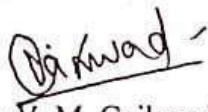
FE (2019 Pattern)


All first year engineering students are hereby informed that, preliminary exam is scheduled from 10th July 2023 as per following details. **Preliminary exam attendance is mandatory for all students.**


Time : 01.00 pm to 03.30 pm

Date	Subject
10/07/2023	Engineering Mathematics-II (107008 )
11/07/2023	Engineering Physics (107002) / Engineering Chemistry (107009 )
12/07/2023	Basic Electrical Engineering (103004 ) / Basic Electronics Engineering (104010)
13/07/2023	Programming and Problem Solving (110005) / Engineering Mechanics (101011)
14/07/2023	Engineering Graphics (102012 )

  
Mr. M. A. Amritkar  
Co-Ordinator

  
Mr. V. M. Gaikwad  
HOD-BES

  
Dr. S. D. Kalpande  
Academic Dean

  
Dr. N. G. Nikam  
Principal

# SE Preliminary Exam TimeTable

SE Engineering (2019 Pattern) All Branches


Exam Centre: Guru Gobind Singh College of Engineering and Research Centre, Nashik


Time : 02:00PM - 04:30PM

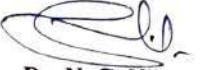
Date	Second Year			
	Electrical Engineering	Computer Engineering	Mechanical Engineering	Civil Engineering
22.05.2023	Power System-I(203145)	Engineering Mathematics - III (207003)	Engineering Mathematics - III(207002)	Geotechnical Engineering(201008)
23.05.2023	Electrical Machines-I((203146)	Data Structures And Algorithms (210252)	Kinematics of Machinery (202047)	Survey(201009)
24.05.2023	Network Analysis(203147)	Software Engineering (210253)	Applied Thermodynamics(202048)	Concrete Technology(201010)
25.05.2023	Numerical Methods & Computer Programming(203148)	Microprocessor (210254)	Fluid Mechanics(202049)	Structural Analysis(201011)
26.05.2023	Fundamental of Microcontroller and Applications(203149)	Principals OF Programming Languages (210255)	Manufacturing Processes(202050)	Project Management(201012)

Note;

- 1.Total Marks 70 Marks
- 2.Submission of Marks in ERP within 3 Days.
3. Maintain quality of Question Paper with appropriate Blooms Taxonomy.

  
Mrs. N. J. Bhamare  
Co-Ordinator

  
01.05.2023  
Dr. S. D. Kalpande  
Academic Dean

  
Dr. N. G. Nikam  
Principal



## Preliminary Exam Time Table

FE, TE, BE Engineering (2019 Pattern) All Branches

Exam Centre: Guru Gobind Singh College of Engineering and Research Centre, Nashik

Time : FE: 2.00 Pm to 3.00 Pm

TE &amp; BE: 10.00 Am to 12.30 Pm

Date	First Year (Unit Test I)	Third Year (Prilim Exam)				Final Year (Prilim Exam)			
		Electrical Engineering	Computer Engineering	Mechanical Engineering	Civil Engineering	Electrical Engineering	Computer Engineering	Mechanical Engineering	Civil Engineering
15.05.2023	Engineering Mathematics-II (107008)	e & Vehicle System Design(302033MJ)	S & ML(310503)/IoT AP & SP (310603)/AI (310303)	-	SA & LD(301403)	-	AI For BDA(410503)/SC & DL(410303)	e-Y(302036MJ)/AI For BDA(410503)/SC & DL(410303)	LU&LC(401403)
16.05.2023	Engineering Physics (107002)/ Engineering Chemistry (107009)	Power System-II(303148)	Data Science and Big Data Analytics(310251)	Artificial Intelligent & Machine Learning(302049)	Waste Water Engineering(301012)	-	High Performance Computing (410250)	Computer Integrated Manufacturing(402048)	Dams & Hydraulic structures(401011)
17.05.2023	Basic Electrical Engineering (103004) / Basic Electronics Engineering (104010)	Computer Aided Design of Electrical Machines(303149)	Web Technology (310252)	Computer Aided Engineering(302050)	Design of RC Structures(301013)	Advanced Electrical Drives & Control(403149)	Deep Learning (410251)	Energy Engineering(402049)	Quantity Surveying, Contracts and tenders(401012)
18.05.2023	Programming and Problem Solving (110005) / Engineering Mechanics (101011)	Control System Engineering(303150)	Artificial Intelligence (310253)	Design of Transmission systems(302051)	Remote sensing and GIS(301014)	Smart Grid(403150 C)	Natural Language Processing 410252(A)	ORE(402050A)/EEFM(402050D)	Structural Audit Retrofitting of structures(401013 D)
19.05.2023	Engineering Graphics (102012)	Energy Management(303151D)	Cloud Computing (310254)	Composite Material(302052-A)/Surface Engineering(302052-B)	Advanced Surveying(301015 e)/Architecture and Town Planning(301015 e)	EHV AC Transmission(403151A)/ Illumination Engineering(403151B)	Business Intelligence 410253(C)	IPOB(402051D)/EHV(402051E)/A & R(402051 C)	Advanced Transportation Engineering(401014 b)

Note;

- Total Marks 70 Marks
- Submission of Marks in ERP within 3 Days.
- Maintain quality of Question Paper with appropriate Blooms Taxonomy.



Dr. N. G. Nikam  
Principal

Mrs. N. J. Bhamare  
Academic Dean

Mrs. N. J. Bhamare  
Co-Ordinator

## FE Prelim Examination July-2023

### Supervision Chart

Sr. No.	Name	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	Sign
	Subject	M-II	PHY/CHM	BXE/BEE	EGM/PPS	EG	
1	Malpure Makrand R.	1		1	1	1	
2	Sonawane Manisha A.	1		1	1	1	
3	Deo Sonalee S.	1		1	1	1	
4	Kucheriya Khushdip C.		1	1	1	1	
5	Shaikh Farhat G.		1	1	1	1	
6	Bodke Vimal S.	1	1		1	1	
7	Srivastava Arjita K.	1	1		1	1	
8	Pagar Ajit R.		1	1	1	1	
9	Gosavi Sonali			1		1	
10	Chavan Dipak P.	1	1	1	1		
11	Chinchawdkar Riya R.	1	1	1		1	
12	Deshmukh N. M.		1			1	
13	Bhalerao Vrinda S	1	1	1		1	
14	Pawar Vishakha V	1	1	1		1	
15	Chavan Vishakha A	1	1		1	1	
16	Patel Farhat A.	1			1		
		11	11	11	11	14	

**Paper Timing: 01.00 PM to 03.30 PM**

Supervisors should report to R & D Cell 15 min before the commencement of examination.

Mr. M. A. Amritkar  
Co-Ordinator

Mr. V. M. Gaikwad  
HOD

Dr. S. D. Kalpande  
Academic Dean

Dr. N. G. Nikam  
Principal





**Guru Gobind Singh College of Engineering and Research Centre, Nashik**  
**Prelims Exam Seating Arrangement**  
**Academic Year: 2022-23 (SEM-II)**  
**SECOND YEAR**

**Date & Day**

22.05.2023 , Monday  
 23.05.2023, Tuesday  
 24.05.2023, Wednesday  
 25.05.2023, Thursday  
 26.05.2023, Friday

**Time: 02:00 Pm to 04:30 Pm**

Floor	Block No.	Year & Branch	Subject	Seating Arrangement	Total
First	125	SECE	GTE,Sur,CT, SA, PM	SECE-1 TO SECE-30	30
		SECO-A	EM-III, DS&A, SE, MICRO, PPL	SECO-A-1 TO SECO-A-30	30
	126	SECE	GTE,Sur,CT, SA, PM	SECE-31 TO SECE-60	30
		SECO-A	EM-III, DS&A, SE, MICRO, PPL	SECO-A-31 TO SECO-A-60	30
	114	SECE	GTE,Sur,CT, SA, PM	SECE-61 TO SECE-72	12
		SECO-A	EM-III, DS&A, SE, MICRO, PPL	SECO-A-61 TO SECO-A-76	16
		SEME	EM-III, KOM, AT,FM,MP	SEME-61 TO SEME-74	14
		SEEE	PS-I,EM-I,NA,NMCP,FM&A	SEEE-61 TO SEEE-73	13
	111	SEEE	PS-I,EM-I,NA,NMCP,FM&A	SEEE-1 TO SEEE-30	30
		SECO-B	EM-III, DS&A, SE, MICRO, PPL	SECO-B-1 TO SECO-B-30	30
	112	SEEE	PS-I,EM-I,NA,NMCP,FM&A	SEEE-31 TO SEEE-60	30
		SECO-B	EM-III, DS&A, SE, MICRO, PPL	SECO-B-31 TO SECO-B-60	30
	106-A	SEME	EM-III, KOM, AT,FM,MP	SEME-1 TO SEME-30	30
	106-B	SEME	EM-III, KOM, AT,FM,MP	SEME-31 TO SEME-60	30
	120	SECO-B	EM-III, DS&A, SE, MICRO, PPL	SECO-B-61 TO SECO-B-77	17
<b>TOTAL</b>					<b>372</b>



**Guru Gobind Singh College of Engineering and Research Centre, Nashik**  
**Prelims Exam Seating Arrangement**  
**Academic Year: 2022-23 (SEM-II)**

Day & Date: 15.05.2023, Monday

Time: 10:00 Am to 12:30 Pm

Floor	Block No.	Year & Branch	Subject	Seating Arrangement	Total	
First	125	BECE	LU& LC	BECE-1 TO BECE-86	29	
		TEEE	e & Vehicle System Design	TEEE-16 TO TEEE-62	12	
		BEME (A & B)	SC&DL	BEME-A-4 TO BEME-B-22	4	
		BEME (A & B)	EVSC&S	BEME-A-71 TO BEME-B-61	6	
	126	TECE	SA&LD	TECE-2 TO TECE-70	20	
		BECO	SC&DL	BECO-9 TO BECO-71	25	
	114	TECO (A&B)	S&ML	TECO-A-1 TO TECO-B-35	8	
		TECO (A&B)	IOS	TECO-A-54 TO TECO-B9	3	
		TECO (A&B)	AI	TECO-A-15 TO TECO-B-58	9	
		BECO & BEME-A	AI BDA	BECO-3 TO BECO-74 & (BEME-A-08)	14	
	<b>TOTAL</b>					<b>130</b>

**Guru Gobind Singh College of Engineering and Research Centre, Nashik**  
**Prelims Exam Seating Arrangement**  
**Academic Year: 2022-23 (SEM-II)**

Day & Date: 16.05.2023, Tuesday

Time: 10:00 Am to 12:30 Pm

Floor	Block No.	Year & Branch	Subject	Seating Arrangement	Total
First Floor	125	TECE	WWE	TECE-1 TO TECE-30	30
		BEEE	S&P	BEEE-1 TO BEEE-30	30
	126	TECE	WWE	TECE-31 TO TECE-60	30
		BEEE	S&P	BEEE-31 TO BEEE-60	30
	114	TECE	WWE	TECE-61 TO TECE-74	14
		BECO	HPC	BECO-61 TO BECO-74	14
		BEEE	S&P	BEEE-61 TO BEEE-81	21
	106-A	BECE	DHS	BECE-1 TO BECE-31	30
		TEEE	PS-II	TEEE-1 TO TEEE-30	30
	106-B	BECE	DHS	BECE-32 TO BECE-62	30
		TEEE	PS-II	TEEE-31 TO TEEE-60	30
	111	BECE	DHS	BECE-63 TO BECE-89	27
		TEEE	PS-II	TEEE-61 TO TEEE-68	8
		TEME	AIML	TEME-61 TO TEME-71	11
	112	TEME	AIML	TEME-1 TO TEME-30	30
		BECO	HPC	BECO-1 TO BECO-30	30
	113	TEME	AIML	TEME-31 TO TEME-60	30
		BECO	HPC	BECO-31 TO BECO-60	30
Fourth Floor	412	BEME A	CIM	BEME A-1 TO BEME A-30	30
		TECO A	DS&BTA	TECO A-1 TO TECO A-30	30
	413	BEME A	CIM	BEME A-31 TO BEME A-60	30
		TECO A	DS&BTA	TECO A-31 TO TECO A-60	30
Fifth Floor	511	BEME B	CIM	BEME B-1 TO BEME B-30	30
		TECO B	DS&BTA	TECO B-1 TO TECO B-30	30
	512	BEME B	CIM	BEME B-31 TO BEME B-60	30
		TECO B	DS&BTA	TECO B-31 TO TECO B-60	30
	513	BEME A	CIM	BEME A-61 TO BEME A-73	13
		TECO A	DS&BTA	TECO A-61 TO TECO A-74	14
		BEME B	CIM	BEME B-61 TO BEME B-73	13
TECO B		DS&BTA	TECO B-61 TO TECO B-75	15	
<b>TOTAL</b>					<b>750</b>

**Guru Gobind Singh College of Engineering and Research Centre, Nashik**  
**Prelims Exam Seating Arrangement**  
**Academic Year: 2022-23 (SEM-II)**

Day & Date: 17.05.2023, Wednesday

Time: 10:00 Am to 12:30 Pm

Floor	Block No.	Year & Branch	Subject	Seating Arrangement	Total
First Floor	125	TECE	DRCS	TECE-1 TO TECE-30	30
		BEEE	AEDC	BEEE-1 TO BEEE-30	30
	126	TECE	DRCS	TECE-31 TO TECE-60	30
		BEEE	AEDC	BEEE-31 TO BEEE-60	30
	114	TECE	DRCS	TECE-61 TO TECE-74	14
		BECO	DL	BECO-61 TO BECO-74	14
		BEEE	AEDC	BEEE-61 TO BEEE-81	21
	106-A	BECE	QSCT	BECE-1 TO BECE-31	30
		TEEE	CADEM	TEEE-1 TO TEEE-30	30
	106-B	BECE	QSCT	BECE-32 TO BECE-62	30
		TEEE	CADEM	TEEE-31 TO TEEE-60	30
	111	BECE	QSCT	BECE-63 TO BECE-89	27
		TEEE	CADEM	TEEE-61 TO TEEE-68	8
		TEME	CAE	TEME-61 TO TEME-71	11
	112	TEME	CAE	TEME-1 TO TEME-30	30
		BECO	DL	BECO-1 TO BECO-30	30
	113	TEME	CAE	TEME-31 TO TEME-60	30
		BECO	DL	BECO-31 TO BECO-60	30
Fourth Floor	412	BEME A	EE	BEME A-1 TO BEME A-30	30
		TECO A	WT	TECO A-1 TO TECO A-30	30
	413	BEME A	EE	BEME A-31 TO BEME A-60	30
		TECO A	WT	TECO A-31 TO TECO A-60	30
Fifth Floor	511	BEME B	EE	BEME B-1 TO BEME B-30	30
		TECO B	WT	TECO B-1 TO TECO B-30	30
	512	BEME B	EE	BEME B-31 TO BEME B-60	30
		TECO B	WT	TECO B-31 TO TECO B-60	30
	513	BEME A	EE	BEME A-61 TO BEME A-73	13
		TECO A	WT	TECO A-61 TO TECO A-74	14
		BEME B	EE	BEME B-61 TO BEME B-73	13
TECO B		WT	TECO B-61 TO TECO B-75	15	
<b>TOTAL</b>					<b>750</b>

**Guru Gobind Singh College of Engineering and Research Centre, Nashik**  
**Prelims Exam Seating Arrangement**  
**Academic Year: 2022-23 (SEM-II)**

Day & Date: 18.05.2023, Thursday

Time: 10:00 Am to 12:30 Pm

Floor	Block No.	Year & Branch	Subject	Seating Arrangement	Total
First	125	TECE	RS&GIS	TECE-1 TO TECE-30	30
		BEEE	SG	BEEE-1 TO BEEE-30	30
	126	TECE	RS&GIS	TECE-31 TO TECE-60	30
		BEEE	SG	BEEE-31 TO BEEE-60	30
	114	TECE	RS&GIS	TECE-61 TO TECE-74	14
		BECO	NLP	BECO-61 TO BECO-74	14
		BEEE	SG	BEEE-61 TO BEEE-81	21
	106-A	BECE	SARS	BECE-1 TO BECE-31	30
		TEEE	CSE	TEEE-1 TO TEEE-30	30
	106-B	BECE	SARS	BECE-32 TO BECE-62	30
		TEEE	CSE	TEEE-31 TO TEEE-60	30
	111	BECE	SARS	BECE-63 TO BECE-89	27
		TEEE	CSE	TEEE-61 TO TEEE-68	8
		TEME	DTS	TEME-61 TO TEME-71	11
	112	TEME	DTS	TEME-1 TO TEME-30	30
		BECO	NLP	BECO-1 TO BECO-30	30
113	TEME	DTS	TEME-31 TO TEME-60	30	
	BECO	NLP	BECO-31 TO BECO-60	30	
Fourth Floor	412	BEME-A	QRE	BEME-A-4 TO BEME-A-43	30
		TECO-A	AI	TECO A-1 TO TECO A-30	30
	413	BEME-A	QRE	BEME-A-44 TO BEME-A-72	21
		BEME-B	QRE	BEME-B-3 TO BEME-B-15	8
		TECO-A	AI	TECO A-31 TO TECO A-60	30
Fifth Floor	511	BEME-B	QRE	BEME-B-49 TO BEME-B-72	19
		BEME-B	EEFM	BEME-B-22 TO BEME-B-73	9
		TECO-B	AI	TECO B-1 TO TECO B-30	30
	512	BEME-A	EEFM	BEME-A-1 TO BEME-A-73	22
		BEME-B	EEFM	BEME-B-1 TO BEME-B-14	7
		TECO-B	AI	TECO-B-31 TO TECO-B-60	30
	513	BEME-B	QRE	BEME-B-16 TO BEME-B-48	30
		TECO-A	AI	TECO-A-61 TO TECO-A-74	14
		TECO-B	AI	TECO-B-61 TO TECO-B-75	15
<b>TOTAL</b>					<b>750</b>

**Guru Gobind Singh College of Engineering and Research Centre, Nashik**  
**Prelims Exam Seating Arrangement**  
**Academic Year: 2022-23 (SEM-II)**

Day & Date: 19.05.2023, Friday

Time: 10:00 Am to 12:30 Pm

Floor	Block No.	Year & Branch	Subject	Seating Arrangement	Total
First	125	TECE	AS	TECE-3 TO TECE-72	30
		BEEE	IE	BEEE-1 TO BEEE-40	30
	126	TECE	AS	TECE-74 TO TECE-74	1
		TECE	ATP	TECE-1 TO TECE-41	28
		BEEE	IE	BEEE-41 TO BEEE-77	30
	114	TECE	ATP	TECE-42 TO TECE-73	15
		BEEE	IE	BEEE-78 TO BEEE-81	4
		BEEE	EHV AC Trans.	BEEE-3 TO BEEE-70	17
		BECO	BI	BECO-61 TO BECO-74	14
	106-A	BECE	ATE	BECE-1 TO BECE-31	30
		TEEE	EM	TEEE-1 TO TEEE-30	30
	106-B	BECE	ATE	BECE-32 TO BECE-62	30
		TEEE	EM	TEEE-31 TO TEEE-60	30
	111	BECE	ATE	BECE-63 TO BECE-89	27
		TEEE	EM	TEEE-61 TO TEEE-68	8
	112	TEME	SE	TEME-1 TO TEME-71	29
		BECO	BI	BECO-1 TO BECO-30	30
	113	TEME	CM	TEME-5 TO TEME-49	30
BECO		BI	BECO-31 TO BECO-60	30	
120	TEME	CM	TEME-51 TO TEME-70	12	
Fourth Floor	412	BEME-A	A&R	BEME-A1 TO BEME-A73	12
		BEME-B	A&R	BEME-B1 TO BEME-A73	17
		TECO-A	CC	TECO-A1 TO TECO-A30	30
	413	BEME-A	E&HV	BEME-A2 TO BEME-A72	13
		BEME-B	E&HV	BEME-B3 TO BEME-B66	16
		TECO-A	CC	TECO-A31 TO TECO-A60	30
Fifth Floor	511	BEME-A	IPOB	BEME-A38 TO BEME-A70	21
		BEME-B	IPOB	BEME-B2 TO BEME-B18	8
		TECO-B	CC	TECO-B1 TO TECO-B30	30
	512	BEME-B	IPOB	BEME-B21 TO BEME-B71	30
		TECO-B	CC	TECO-B31 TO TECO-B60	30
	513	BEME-B	E&HV	BEME-B68 TO BEME-B78	2
		BEME-A	IPOB	BEME-A4 TO BEME-A37	27
TECO-A		CC	TECO-A61 TO TECO-A74	14	
TECO-B		CC	TECO-A61 TO TECO-A75	15	
<b>TOTAL</b>					<b>750</b>



# Guru Gobind Singh College of Engineering & Research Centre, Nashik

Basic Engineering Science [2022-23]

## Unit Test 2

**Subject :** [ 107009-Th ] Engineering chemistry - Theory **Faculty :** Sonalee Deo

**Year :** FIRST YEAR - Sem-II: FE-E **Marks :** 70 **Date :** 11 July, 2023 **Duration :** 150 Minutes

1) Solve either question no **Q.No.1 or Q. No.2, Q. No.3 or Q.No.4, Q. No.5 or Q.No. 6, Q.No.7 or Q.No.8**

2) Draw Neat diagrams wherever necessary.

3) Use of scientific calculator is allowed.

4) Assume suitable data where ever necessary

5) Figures to the right indicate full marks.

Sr.No.	Question	Marks	Course Outcome	Blooms Level
1	Attempt all Questions. (Unit3)			
1.1	Q1 a) What are biodegradable polymers? Explain their features. Give examples of biodegradable polymers and applications	7.00	CO3,	Understand
1.2	Q.1 (b) i. What are Quantum Dots? Write its properties and applications. 3M Q.1 (b) ii.What are nanomaterials ? Give any two important applications of nanomaterials with example. 3M	6.00	CO3,	Understand
1.3	Q.1 (c) What are polymer composites? What are constituents of polymer composite? State important features of matrix phase.	5.00	CO3,	Remember
2	Attempt all Questions. (Unit3)			
2.1	Q2 a) What are CNT's?Discuss the different types of carbon nanotubes with respect to their structure. State their applications.	7.00	CO3,	Understand
2.2	Q.2 (b) Give the structure, properties and applications of - (i) Polycarbonate (ii) Polyphenylene vinylene (PPV).	6.00	CO3,	Apply
2.3	Q.2 (c) What is Doping? How conductivity is increased by doping?	5.00	CO3,	Understand
3	Attempt all Questions. (Unit4)			
3.1	Q.3. (a) i. 0.5 gm of coal sample on combustion was found to increase the weight of CaCl <sub>2</sub> U- tube by 0.2 gm and KOH U- tube by 1.2 gm. Calculate % C and % H in the given coal sample. (4M) ii. Define Coal ? Give the classification of coal? (3M)	7.00	CO4,	Understand
3.2	Q.3.(b) Draw a well labelled diagram of Bomb Calorimeter, explain working of it. State the GCV formula with corrections.	5.00	CO4,	Remember
3.3	Q.3.(c) Give the process generations of H <sub>2</sub> gas along with reactions involved from 1) Methane 2) Coke	5.00	CO4,	Understand
4	Attempt all Questions. (Unit4)			
4.1	Q.4 (a) i. 0.55 % of coal sample was completely combusted in a Bomb calorimeter. The washings from the bomb pot on treatment with BaCl <sub>2</sub> formed 0.02 g of BaSO <sub>4</sub> . 1.4 g of the same coal sample in Kjeldahl's experiment liberated ammonia which was absorbed in sulphuric acid. The resultant solution required 11.9 ml of 0.1N NaOH in the back titration. The reading for blank titration was 25.0 ml. Calculate the % of N and S in coal. (4M) ii.Give 2 advantages of and 2 limitations of Power Alcohol. (3M)	7.00	CO4,	Evaluate
4.2	Q.4 (b) Discuss the procedure with formula in determination of Proximate Analysis of Coal.	5.00	CO4,	Understand
4.3	Q.4(c) Explain with the help of diagram distillation of crude petroleum? Give composition, properties and application of any two fractions obtained.	5.00	CO4,	Understand

5	Attempt all Questions. (Unit 5)		
5.1	Q5 a) Give instrumentation of UV -Visible spectrophotometer. Give the applications of UV spectroscopy.	7.00	CO5, Understand
5.2	Q5 b) Give the different types of electronic transitions that occur in the organic molecule after interaction with UV radiations And give the electronic transitions present in methane, ethene, acetone and Nitrile.	6.00	CO5, Apply
5.3	Q.5(c) i. Define the following : (2M) 1) Chromophore 2) Hypsochromic Shift 3) Hyperchromic Shift ii. State and give mathematical expression Lambert's law. (3M)	5.00	CO5, Remember
6	Attempt all Questions. (Unit 5)		
6.1	Q6 a) Give the principle of IR spectroscopy. Explain the different types of vibrations in IR spectroscopy.	7.00	CO5, Understand
6.2	Q6 b) Give the conditions for IR radiations and Draw a block diagram of IR spectrophotometer. Explain any three components of IR spectrophotometer with their functions	6.00	CO5, Understand
6.3	Q6 c) i) Calculate the number of fundamental vibration in CO <sub>2</sub> , H <sub>2</sub> O, C <sub>6</sub> H <sub>6</sub> (3M) ii) .Explain applications of IR spectroscopy. (2M)	5.00	CO5, Understand
7	Attempt all Questions. (Unit 6)		
7.1	Q7(a) i. What is galvanising ? Explain process with neat labelled diagram to protect iron from corrosion (4M) ii. Define oxidation corrosion. Explain general mechanism of oxidative corrosion with diagram. (3M)	7.00	CO6, Understand
7.2	Q7(b) Explain wet corrosion mechanism for H <sub>2</sub> evolution and O <sub>2</sub> absorption with proper diagrammatic representation.	5.00	CO6, Understand
7.3	Q7(c) Explain any five factors affecting rate of corrosion.	5.00	CO6, Understand
8	Attempt all Questions. (Unit 6)		
8.1	Q.8 (a) i. Define corrosion. State the condition under which wet corrosion occurs. (4M) ii. Enlist the method of protection of metal from corrosion and explain any one of them, (3M)	7.00	CO6, Understand
8.2	Q.8 (b) What is the principle of cathodic protection. Explain any one method of cathodic protection with proper diagrammatic representation and reactions involved in it.	5.00	CO6, Understand
8.3	Q.8 (c) What is Pilling-Bedworth ratio ? Give four types of oxide films formed on surface of metal with suitable example	5.00	CO6, Remember



## Guru Gobind Singh College of Engineering &amp; Research Centre, Nashik

## Students Score - (Unit Test 2) Threshold 40%

		Unit Test 2																	
Roll No	Name	Attempt all Questions. (Unit3)			Attempt all Questions. (Unit3)			Attempt all Questions. (Unit4)			Attempt all Questions. (Unit4)			Attempt all Questions. (Unit 5)			Attempt all C (Unit 5)		
		Q1 a) What are... [7.00 Marks]	Q.1 (b) i. Wh... [6.00 Marks]	Q.1 (c) What a... [5.00 Marks]	Q2 a) What are... [7.00 Marks]	Q.2 (b) Give t... [6.00 Marks]	Q.2 (c) What i... [5.00 Marks]	Q.3. (a) i. 0... [7.00 Marks]	Q.3.(b) Draw a... [5.00 Marks]	Q.3. (c) Give t... [5.00 Marks]	Q.4 (a) i. 0... [7.00 Marks]	Q.4 (b) Discus... [5.00 Marks]	Q.4(c) Explain... [5.00 Marks]	Q5 a)Give inst... [7.00 Marks]	Q5) b)Give th... [6.00 Marks]	Q.5(c) i.Defi... [5.00 Marks]	Q6 a) Give the... [7.00 Marks]	Q6 b)C the [6.00 Marks]	
1	Gaurang Panday	3	2				4	4	3				3	3	2				
2	Prathmesh Pangare						2												
3	Suraj Pathade																		
4	Pranav Patil						3	2											
5	Mohit Patil	3	3	1									3	2					
6	Niraj Patil	4	3	2															
7	Khushi Patil				3			2					2	2					
8	Harshal Patil																		
9	Mayur Pawar	4	4	3			4	4	4				5	5	3				
10	Rushikesh Pawar						3	3											
11	Anmol Rawat						3	3	3							3	3		
12	Pritam Roy	2	2				4	3											
13	Tayyaba Sayyed				2		4	3					3	3					
14	Mashkura Sayyed Kotwal						4	4	3				4	4	4				
15	Tanjila Shaikh							5					2						
16	Safa Shaikh							3	2				2						
17	Mohsin Shaikh																		
18	Avantika Shevkar																0		
19	Nayana Singh	3	2				5	5								5	5		
20	Harsha Soni						3												
21	Rohit Sonpasare												2						
22	Nidhi Suryawanshi																		
23	Siddhi Tidke												1						
24	Avinash Tolsarwad												0						
25	Neha Ubale						1												




		Unit Test 2																	
		Attempt all Questions. (Unit3)			Attempt all Questions. (Unit3)			Attempt all Questions. (Unit4)			Attempt all Questions. (Unit4)			Attempt all Questions. (Unit 5)			Attempt all C (Unit 5)		
Roll No	Name	Q1 a) What are... [7.00 Marks]	Q.1 (b) i. Wh... [6.00 Marks]	Q.1 (c) What a... [5.00 Marks]	Q2 a) What are... [7.00 Marks]	Q.2 (b) Give t... [6.00 Marks]	Q.2 (c) What i... [5.00 Marks]	Q.3. (a) i. 0... [7.00 Marks]	Q.3.(b) Draw a... [5.00 Marks]	Q.3. (c) Give t... [5.00 Marks]	Q.4 (a) i. 0... [7.00 Marks]	Q.4 (b) Discus... [5.00 Marks]	Q.4(c) Explain... [5.00 Marks]	Q5 a)Give inst... [7.00 Marks]	Q5) b)Give th... [6.00 Marks]	Q.5(c) i.Defi... [5.00 Marks]	Q6 a) Give the... [7.00 Marks]	Q6 b)C the [6.00 Marks]	
26	Nandini Ugale							1											
27	Shubham Unde							0											
28	Nandkumar Vaijal							0											
29	Priyal Vazare							0											
30	Aryan Yeram							3	3										
31	Chetan Aher					3		3	2										
32	Shyam Avhad	4		4				2	1										
33	Anil Chavan							3	2				3	3					
34	Harshad Chitte							3	3				3	2					
35	Siddhant Donde							3	3				3	3	2				
36	Mohan Gambhire							4	4										
37	Divyesh Gavali	2						2					1						
38	Saraswati Gite							2					2						
39	Shubham Jadhav						0												
40	Tanuja Kale																		
41	Kunal Kasar							4											
42	Neha Kumawat	3	3	3							5	5	5						
43	Neeraj Mahajan	4	4	4							5	5	5	5	5	3			
44	Vishal Mahale		2	2				4	4	4				5	5	1			
45	Mahesh Mali																		
46	Jay Mankar							4	3				1						
47	Neha Narkhede	4	4					5	5	1			5	5	1				
48	Roshan Nikam																		
49	Ashutosh Patil	5	5					2	2	2			5	4					
50	Aditya Pingale							4	2	1									
51	Karan Sakale							3	2										
52	Pratik Salunke	4	4								3	2							
53	Tejsingh Seble																		

		Unit Test 2																	
		Attempt all Questions. (Unit3)			Attempt all Questions. (Unit3)			Attempt all Questions. (Unit4)			Attempt all Questions. (Unit4)			Attempt all Questions. (Unit 5)			Attempt all C (Unit 5)		
Roll No	Name	Q1 a) What are... [7.00 Marks]	Q.1 (b) i. Wh... [6.00 Marks]	Q.1 (c) What a... [5.00 Marks]	Q2 a) What are... [7.00 Marks]	Q.2 (b) Give t... [6.00 Marks]	Q.2 (c) What i... [5.00 Marks]	Q.3. (a) i. 0... [7.00 Marks]	Q.3.(b) Draw a... [5.00 Marks]	Q.3. (c) Give t... [5.00 Marks]	Q.4 (a) i. 0... [7.00 Marks]	Q.4 (b) Discus... [5.00 Marks]	Q.4(c) Explain... [5.00 Marks]	Q5 a)Give inst... [7.00 Marks]	Q5) b)Give th... [6.00 Marks]	Q.5(c) i.Defi... [5.00 Marks]	Q6 a) Give the... [7.00 Marks]	Q6 b)C the [6.00 Marks]	
54	Faizan Shaikh	4	3								4	3		3					
55	Sahil Shinde	1																	
56	Om Shinde	5	5	3							5	5	5						
57	Ritik Singh	2	2								2								
58	Guransh Singh	3	2				3	2											
59	Sakshi Sonawane	3	3	3			3	3						2					
60	Roshan Sonawane	3	3				5	5	4				5	5	4				
61	Prashant Sumb						5	5	1				2						
62	Sarthak Takate						3	3	3										
63	Vivek Yadav	1																	
64	Saurabh Zankar																		

	Q1 a) What are...	Q2 a) What are...	Q.3. (a) i. 0...	Q.4 (a) i. 0...	Q5 a)Give inst...	Q6 a) Give the...	Q6 b)Give the ...	Q7(a) i.What i...	Q7(b) Explain ...	Q7(c) Explain ...	Q.8 (a) i.Defi...	Q.8 (b) What i...	Q.8 (c) What i...	Q5) b)Give th...	Q6 c) i) Calcu...	Q.5(c) i.Defi...	Q.4 (b) Discus...	Q.4(c) Explain...
Number of student(s) attempted question	21	2	37	6	24	2	3	9	4	1	10	12	5	15	3	8	5	3
Percentage of student(s) above threshold	76.19	50.00	72.97	83.33	58.33	100.00	66.67	55.56	100.00	100.00	70.00	75.00	80.00	73.33	66.67	75.00	100.00	100.00
Linked course outcome	CO3,	CO3,	CO4,	CO4,	CO5,	CO5,	CO5,	CO6,	CO6,	CO6,	CO6,	CO6,	CO6,	CO5	CO5,	CO5	CO4,	CO4,
Attainment	2	1	2	3	1	3	2	1	3	3	2	2	2	2	2	2	3	3

Course outcome	CO1	CO2	CO3	CO4	CO5	CO6
Final attainment			1.83	2.67	2.00	2.17

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# Guru Gobind Singh College of Engineering & Research Centre, Nashik

Computer Engineering [2022-23]

## Prelim Exam

**Subject :** [ 210252 ] 210252: Data Structures and Algorithms - Theory **Faculty :** Farhat Patel

**Year :** SECOND YEAR - Sem-4: SECO-A **Marks :** 70 **Date :** 23 May, 2023 **Duration :** 150 Minutes

Time : 2½ Hours Max. Marks : 70

Instructions to the candidates:

- 1) **Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.**
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary

Sr.No.	Question	Marks	Course Outcome	Blooms Level
1	All Questions are Compulsary			
1.1	What is graph? Enlist the various method to represent the graph and explain adjacency list method to represent a graph using suitable example.	5.00	CO3	Understand
1.2	For the graph given bellow find out MST using prims algorithm.	6.00	CO3	Apply
1.3	Draw any directed graph with minimum 6 nodes and represent graph using adjacency matrix, adjacency list and adjacency multi list	6.00	CO3	Apply
2	All Questions are Compulsary			
2.1	What is Spanning tree? Explain the Prims algorithm to find MST for a given graph.	5.00	CO3	Understand
2.2	For the given graph find out shortest path using dijkstra algorithm.	6.00	CO3	Apply

2.3	Write a short note on topological sorting. Solve below Example.	6.00	CO3	Apply
3	All Questions are Compulsary			
3.1	Explain with example i) Red - Black Tree ii)Splay Tree	5.00	CO4	Understand
3.2	Construct AVL tree for following sequence of keys. 1, 2, 3, 4, 8, 7, 6, 5, 11, 10	6.00	CO4	Analyze
3.3	What is OBST in data structure? and what are advantages of OBST?	6.00	CO4	Remember
4	All Questions are Compulsary			
4.1	Explain AVL tree rotations with example.	5.00	CO4	Understand
4.2	Construct Red -Black Tree for following elements 10, 18, 7, 15, 16, 30, 25, 40	6.00	CO4	Analyze
4.3	Define the following: i) Static and dynamic tree tables with suitable example. ii) Dynamic programming with principle of optimality.	6.00	CO4	Remember
5	All Questions are Compulsary.			
5.1	Write a short note B-Tree.	6.00	CO5	Remember
5.2	Explain Steps to Build B-Tree of order 5 for following Data 78,21,14,11,97,85,74,63,45,42,57,20,16,19,52,30,21	6.00	CO5	Analyze
5.3	What B+ Tree. Give Structure of its internal nodes. What are the variants of B and B+ Tree. Give any Two Variation.	6.00	CO5	Understand
6	All Questions are Compulsary			
6.1	Write an algorithm of B tree deletion	6.00	CO5	Remember
6.2	Build B+ tree of order 3 for the following data: F, S, Q, K, C, L, H, T, V, W, M, R	6.00	CO5	Analyze
6.3	Explain with example trie.tree. Give advantage and applications of trie Tree.	6.00	CO5	Understand
7	All Questions are Compulsary			
7.1	Define sequential file organization. Give it's advantages and disadvantages.	6.00	CO6	Remember
7.2	What is file? List different file opening modes in C++. Explain concept of inverted files	6.00	CO6	Understand
7.3	Write short note on external sort	6.00	CO6	Understand
8	All Questions are Compulsary			

8.1	Define indexed sequential file organization. Compare it with direct access file	6.00	CO6	Remember
8.2	A write a C++ program to create a file. Insert records into the file by opening file in append mode. Search for a specific record into file.	6.00	CO6	Understand
8.3	Sort the following elements using two way merge sort with $m = 3$ . 20, 47, 15, 8, 9, 4, 40, 30, 12, 17, 11, 56, 28, 35	6.00	CO6	Understand



Students Score - (Prelim Exam) Threshold 40%

		Prelim Exam																										
		All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary.			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary					
Roll No	Name	What is graph?... [5.00 Marks]	For the graph ... [6.00 Marks]	Draw any direc... [6.00 Marks]	What is Spanni... [5.00 Marks]	For the given ... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain with e... [5.00 Marks]	Construct AVL ... [6.00 Marks]	What is OBST i... [6.00 Marks]	Explain AVL tr... [5.00 Marks]	Construct Red ... [6.00 Marks]	Define the fol... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain Steps ... [6.00 Marks]	What B+ Tree. ... [6.00 Marks]	Write an algor... [6.00 Marks]	Build B+ tree ... [6.00 Marks]	Explain with e... [6.00 Marks]	Define sequent... [6.00 Marks]	What is file? ... [6.00 Marks]	Write short no... [6.00 Marks]	Define indexed... [6.00 Marks]	A write a C++ ... [6.00 Marks]	Sort the follo... [6.00 Marks]		Total	Mark As Absent
1	Rohan Adhav				4	6	6		6																	Saved	22	<input type="checkbox"/>
2	Ankur Ahire	5	5																							Saved	10	<input type="checkbox"/>
3	Atharva Ahire	4	5	4				4	6																	Saved	23	<input type="checkbox"/>
4	Vaibhav Ahire	2	2	2							2	1														Saved	9	<input type="checkbox"/>
5	Aman Bagga	3	6	6				5	6	6				5	6	5							4	5	6	Saved	63	<input type="checkbox"/>
6	Anuja Andhale	2	4	4																			3			Saved	13	<input type="checkbox"/>
7	Pranjal Bachhav	5	5								2															Saved	12	<input type="checkbox"/>
8	Mrudula Barve	5	6	4							3															Saved	18	<input type="checkbox"/>
9	Sujit Bhadane	2									2															Saved	4	<input type="checkbox"/>
10	Harshali Bhoje				5	2			1																	Saved	8	<input type="checkbox"/>
11	Hrushikesh Bobade	0																								Saved	0	<input type="checkbox"/>
12	Omkar Borade	4						0		0				0		0				1	5					Saved	10	<input type="checkbox"/>
13	Falguni Chaudhari	4	6	4							1															Saved	15	<input type="checkbox"/>
14	Ketan Chaudhari	1	4																							Saved	5	<input type="checkbox"/>
15	Mayur Chaudhari	1	1	2																						Saved	4	<input type="checkbox"/>
16	Roshan Chaudhari	4	5	4																			4	1		Saved	18	<input type="checkbox"/>
17	Jay Chavan		2												1											Saved	3	<input type="checkbox"/>
18	Rushikesh Darade	0																								Saved	0	<input type="checkbox"/>

		Prelim Exam																									
Roll No	Name	All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary.			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			Total	Mark As Absent
		What is graph?... [5.00 Marks]	For the graph ... [6.00 Marks]	Draw any direc... [6.00 Marks]	What is Spanni... [5.00 Marks]	For the given ... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain with e... [5.00 Marks]	Construct AVL ... [6.00 Marks]	What is OBST i... [6.00 Marks]	Explain AVL tr... [5.00 Marks]	Construct Red ... [6.00 Marks]	Define the fol... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain Steps ... [6.00 Marks]	What B+ Tree. ... [6.00 Marks]	Write an algor... [6.00 Marks]	Build B+ tree ... [6.00 Marks]	Explain with e... [6.00 Marks]	Define sequent... [6.00 Marks]	What is file? ... [6.00 Marks]	Write short no... [6.00 Marks]	Define indexed... [6.00 Marks]	A write a C++ ... [6.00 Marks]	Sort the follo... [6.00 Marks]		
19	Shubham Daware	1																							Saved	1	<input type="checkbox"/>
20	Neel Deore	4		6						5	3														Saved	18	<input type="checkbox"/>
21	Eshwari Deshmukh	5	6	2						5	4														Saved	22	<input type="checkbox"/>
22	Diya Dhake				5	4	6									1	0	4							Saved	20	<input type="checkbox"/>
23	Divyesh Chaudhari	4																							Saved	4	<input type="checkbox"/>
24	Farheena Memon																								Save	0	<input type="checkbox"/>
25	Sahil Fatangale	1	2	4						6															Saved	13	<input type="checkbox"/>
26	Rutuja Gaidhani	4		2									1	1	1							1			Saved	10	<input type="checkbox"/>
27	Ajay Gaikwad				0	0	0																		Saved	0	<input type="checkbox"/>
28	Lavanya Gaikwad				4	4	6			4				1											Saved	16	<input type="checkbox"/>
29	Sakshi Gaikwad	5	4	6				2	1	3			1	0	1										Saved	23	<input type="checkbox"/>
30	Shruti Gaikwad	3	4	3				2	2	1															Saved	15	<input type="checkbox"/>
31	Praful Ghedmal					4																			Saved	4	<input type="checkbox"/>
32	Siddhesh Ghode	1	0																						Saved	1	<input type="checkbox"/>
33	Sudarshan Gunjal	5	5																						Saved	10	<input type="checkbox"/>
34	Lokeshsing Girase				5	6	6			6															Saved	23	<input type="checkbox"/>
35	Priyanka Gore	5	1	4						0			1												Saved	11	<input type="checkbox"/>
36	Mansi Hire			4														6	6	5					Saved	21	<input type="checkbox"/>
37	Yash Govardhane												2												Saved	2	<input type="checkbox"/>
38	Bharat Gupta	4																							Saved	4	<input type="checkbox"/>
39	Harshita Bari	5	6							6				5											Saved	22	<input type="checkbox"/>

		Prelim Exam																									
Roll No	Name	All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary.			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			Total	Mark As Absent
		What is graph?... [5.00 Marks]	For the graph ... [6.00 Marks]	Draw any direc... [6.00 Marks]	What is Spanni... [5.00 Marks]	For the given ... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain with e... [5.00 Marks]	Construct AVL ... [6.00 Marks]	What is OBST i... [6.00 Marks]	Explain AVL tr... [5.00 Marks]	Construct Red ... [6.00 Marks]	Define the fol... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain Steps ... [6.00 Marks]	What B+ Tree. ... [6.00 Marks]	Write an algor... [6.00 Marks]	Build B+ tree ... [6.00 Marks]	Explain with e... [6.00 Marks]	Define sequent... [6.00 Marks]	What is file? ... [6.00 Marks]	Write short no... [6.00 Marks]	Define indexed... [6.00 Marks]	A write a C++ ... [6.00 Marks]	Sort the follo... [6.00 Marks]		
40	Kishan Hyalij				5			1																	Saved	6	<input type="checkbox"/>
41	Yash Imale	1																							Saved	1	<input type="checkbox"/>
42	Parag Iwanate	3	4																						Saved	7	<input type="checkbox"/>
43	Akshay Jadhav	3	4	2				2	1																Saved	12	<input type="checkbox"/>
44	Anushka Jadhav	5	6	6						5	3		4	3					4	4					Saved	40	<input type="checkbox"/>
45	Vaishnavi Jadhav	3	6	4							4	0													Saved	17	<input type="checkbox"/>
46	Mayur Jagtap	5	6	5				4	0	2			2												Saved	24	<input type="checkbox"/>
47	Jayashri Mahajan				5	0	3				2		1		6										Saved	17	<input type="checkbox"/>
48	Ananya Jodh	4	0	2				1																	Saved	7	<input type="checkbox"/>
49	Om Kalamkar	4	5	2																					Saved	11	<input type="checkbox"/>
50	Saishwari Kalavadekar																								Save	0	<input type="checkbox"/>
51	Mahesh Kale	0	0																						Saved	0	<input type="checkbox"/>
52	Asmi Kasar			4							4	4													Saved	12	<input type="checkbox"/>
53	Om Khaimar	3	1	4				0																	Saved	8	<input type="checkbox"/>
54	Manasi Kolhe	4	6	6						4	2			3											Saved	25	<input type="checkbox"/>
55	Priyanka Kolte	2	5	2						4															Saved	13	<input type="checkbox"/>
56	Tejaswini Kshirsagar				5	3	6	1	3	5															Saved	23	<input type="checkbox"/>
57	Jigeesha Kuksal																								Save	0	<input type="checkbox"/>
58	Vaidehi Kulkarni				5	6	4			4	3	2													Saved	24	<input type="checkbox"/>
59	Shubham Kumat				5	6	6		1																Saved	18	<input type="checkbox"/>
60	Samruddhi Kunde	2	2					0																	Saved	4	<input type="checkbox"/>



		Prelim Exam																										
Roll No	Name	All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary.			All Questions are Compulsary			All Questions are Compulsary			All Questions are Compulsary			Total	Mark As Absent	
		What is graph?... [5.00 Marks]	For the graph ... [6.00 Marks]	Draw any direc... [6.00 Marks]	What is Spanni... [5.00 Marks]	For the given ... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain with e... [5.00 Marks]	Construct AVL ... [6.00 Marks]	What is OBST i... [6.00 Marks]	Explain AVL tr... [5.00 Marks]	Construct Red ... [6.00 Marks]	Define the fol... [6.00 Marks]	Write a short ... [6.00 Marks]	Explain Steps ... [6.00 Marks]	What B+ Tree. ... [6.00 Marks]	Write an algor... [6.00 Marks]	Build B+ tree ... [6.00 Marks]	Explain with e... [6.00 Marks]	Define sequent... [6.00 Marks]	What is file? ... [6.00 Marks]	Write short no... [6.00 Marks]	Define indexed... [6.00 Marks]	A write a C++ ... [6.00 Marks]	Sort the follo... [6.00 Marks]			
61	Samiksha Landage	3	1	1				2	0											2					Saved	9	<input type="checkbox"/>	
62	Abhijay Lande	1																								Saved	1	<input type="checkbox"/>
63	Abhijeet Lande			0	1																					Saved	1	<input type="checkbox"/>
64	Payal Lawate				5	1					2		2													Saved	10	<input type="checkbox"/>
65	Gaurav Mahajan	2																		2						Saved	4	<input type="checkbox"/>
66	Dipesh Mahale																									Save	0	<input type="checkbox"/>
67	Mansi Mahale	3	4	6							2	2						3	0		2					Saved	22	<input type="checkbox"/>
68	Jayesh Mali	1				0																				Saved	1	<input type="checkbox"/>
69	Aryan Marathe	3	6	4							3	2														Saved	18	<input type="checkbox"/>
70	Vedant Marathe				1	0														4	1	0				Saved	6	<input type="checkbox"/>
71	Adnan Memon	4	5	4															2							Saved	15	<input type="checkbox"/>
72	Shrushty Meshram								2								5	2	2							Saved	11	<input type="checkbox"/>
73	Yash Mirpagar	3	6	4				1	0	0										2						Saved	16	<input type="checkbox"/>
74	Aditya Mohane																									Save	0	<input type="checkbox"/>
75	Ankita More																									Save	0	<input type="checkbox"/>
76	Pratik More	1						0			0															Saved	1	<input type="checkbox"/>

	What is graph?...	For the graph ...	Draw any direc...	What is Spanni...	For the given ...	Write a short ...	Explain with e...	Construct AVL ...	What is OBST i...	Explain AVL tr...	Construct Red ...	Define the fol...	Write a short ...	Explain Steps ...	What B+ Tree. ...	Write an algor...	Build B+ tree ...	Explain with e...	Define sequent...	What is file? ...	Write short no...	Define indexed...	A write a C++ ...	Sort the follo...
Number of student(s) attempted question	50	37	32	13	15	9	12	19	8	19	10	3	7	10	4	2	3	3	8	5	2	4	2	1

	What is graph?...	For the graph ...	Draw any direc...	What is Spanni...	For the given ...	Write a short ...	Explain with e...	Construct AVL ...	What is OBST i...	Explain AVL tr...	Construct Red ...	Define the fol...	Write a short ...	Explain Steps ...	What B+ Tree. ...	Write an algor...	Build B+ tree ...	Explain with e...	Define sequent...	What is file? ...	Write short no...	Define indexed...	A write a C++ ...	Sort the follo...
Percentage of student(s) above threshold	76.00	70.27	68.75	76.92	60.00	88.89	50.00	42.11	37.50	84.21	50.00	0.00	28.57	50.00	25.00	50.00	33.33	33.33	37.50	60.00	50.00	75.00	50.00	100.00
Linked course outcome	CO3	CO3	CO3	CO3	CO3	CO3	CO4	CO4	CO4	CO4	CO4	CO4	CO5	CO5	CO5	CO5	CO5	CO5	CO6	CO6	CO6	CO6	CO6	CO6
Attainment	2	2	2	2	1	3	1	1	0	3	1	0	0	1	0	1	0	0	0	1	1	2	1	3

Course outcome	CO1	CO2	CO3	CO4	CO6	CO5
Final attainment			2.00	1.00	1.33	0.33

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# Guru Gobind Singh College of Engineering & Research Centre, Nashik

Electrical Engineering [2022-23]

## Unit Test 1

**Subject :** [ 303148\_Th ] 303148-Power System-II - Theory **Faculty :** Nilima Bhamare  
**Year :** THIRD YEAR - SEM-6 : TEEE **Marks :** 30 **Date :** NaN undefined, NaN **Duration :** 60 Minutes

	Marks	Course Outcome	Blooms Level	Performance Indicator
	0.00			
	0.00			
Explain concept of complex power in transmission line.	10.00	CO1	Evaluate,Understand	
Explain Surge Impedance Loading.	5.00	CO1	Evaluate,Understand	
	0.00			
What is line compensation line?	5.00	CO1	Understand,Remember	
Explain regulation of transmission line.	5.00	CO1	Evaluate,Understand	
Explain efficiency of transmission line.	5.00	CO1	Evaluate,Understand	
	0.00			
Explain phenomenon of corona in EHV power Transmission.	10.00	CO2	Evaluate,Understand	
State the problem of EHV transmission.	5.00	CO2	Understand,Remember	
	0.00			
What is EHV state is role?	5.00	CO2	Understand,Remember	
State advantages of EHV Ac Transmission system.	5.00	CO2	Remember	
Explain Power handling capacity.	5.00	CO2	Evaluate,Understand	



## Guru Gobind Singh College of Engineering &amp; Research Centre, Nashik

## Students Score - (Unit Test 1) Threshold 40%

		Unit Test 1												
		Q.1		Q.2			Q.3		Q.4					
Roll No	Name	Explain concep... [10.00 Marks]	Explain Surge ... [5.00 Marks]	What is line c... [5.00 Marks]	Explain regula... [5.00 Marks]	Explain effici... [5.00 Marks]	Explain phenom... [10.00 Marks]	State the prob... [5.00 Marks]	What is EHV st... [5.00 Marks]	State advantag... [5.00 Marks]	Explain Power ... [5.00 Marks]	Total	Mark As Absent	
1	Devendra Jachak	7					7	4				Saved	18	<input type="checkbox"/>
2	Gaurav Agarwal											Saved	0	<input checked="" type="checkbox"/>
3	Vaishnavi Ahire	7	4						4	4		Saved	19	<input type="checkbox"/>
4	Akshada Shinde	7					6	4				Saved	17	<input type="checkbox"/>
5	Sayali Avhad	5					7	4				Saved	16	<input type="checkbox"/>
6	Gaurav Badakh								4	2		Saved	6	<input type="checkbox"/>
7	Utkarsh Bagad	7	4				4	4				Saved	19	<input type="checkbox"/>
8	Ashvini Bagul	7	4						4	4	4	Saved	23	<input type="checkbox"/>
9	Yash Bahale	6	4				2	3				Saved	15	<input type="checkbox"/>
10	Nakshi Barve											Saved	0	<input checked="" type="checkbox"/>
11	Kumail Ashraf Beldar	0										Saved	0	<input type="checkbox"/>
12	Rahul Bhoir											Saved	0	<input checked="" type="checkbox"/>
13	Akshata Bhole	6	4				7					Saved	17	<input type="checkbox"/>
14	Lokesh Chaudhary								4	4		Saved	8	<input type="checkbox"/>
15	Samruddhaditya Chaudhary	6					4	4				Saved	14	<input type="checkbox"/>
16	Tushar Chauhan	6	4				7	4				Saved	21	<input type="checkbox"/>
17	Deepali Khandvi		4						3	4		Saved	11	<input type="checkbox"/>
18	Gayatri Demse	7	4				7	4				Saved	22	<input type="checkbox"/>
19	Pooja Demse	4							3	3		Saved	10	<input type="checkbox"/>
20	Parth Dhikale											Saved	0	<input checked="" type="checkbox"/>
21	Sachin Doke	5	5						4	4	4	Saved	22	<input type="checkbox"/>
22	Megha Donde											Saved	0	<input checked="" type="checkbox"/>
23	Tejas Gadekar											Saved	0	<input checked="" type="checkbox"/>
24	Kiran Gaikwad											Saved	0	<input checked="" type="checkbox"/>

		Unit Test 1												
		Q.1		Q.2			Q.3		Q.4					
Roll No	Name	Explain concep... [10.00 Marks]	Explain Surge ... [5.00 Marks]	What is line c... [5.00 Marks]	Explain regula... [5.00 Marks]	Explain effici... [5.00 Marks]	Explain phenom... [10.00 Marks]	State the prob... [5.00 Marks]	What is EHV st... [5.00 Marks]	State advantag... [5.00 Marks]	Explain Power ... [5.00 Marks]	Total	Mark As Absent	
25	Shubham Gangurde										Saved	0	<input checked="" type="checkbox"/>	
26	Atharv Gurav		4				6	3			Saved	13	<input type="checkbox"/>	
27	Amey Hadkar										Saved	0	<input checked="" type="checkbox"/>	
28	Kiran Jadhav			4		4	7	4			Saved	19	<input type="checkbox"/>	
29	Omkar Jadhav			3	2	2			4	5	Saved	16	<input type="checkbox"/>	
30	Kishor Jagdale										Saved	0	<input checked="" type="checkbox"/>	
31	Siddhesh Kadam	2	3						4	4	4	Saved	17	<input type="checkbox"/>
32	Kiran Kedare	4	2						4	4	4	Saved	18	<input type="checkbox"/>
33	Rajas Kshatriya	7	4				5	4				Saved	20	<input type="checkbox"/>
34	Gauri Kulkarni											Saved	0	<input checked="" type="checkbox"/>
35	Laresh Chaudhari											Saved	0	<input checked="" type="checkbox"/>
36	Neha Lohar											Saved	0	<input checked="" type="checkbox"/>
37	Siddhant Lokhande	7	4						4	4		Saved	19	<input type="checkbox"/>
38	Tejas Lokhande											Saved	0	<input checked="" type="checkbox"/>
39	Sakshi Mogal											Saved	0	<input checked="" type="checkbox"/>
40	Mitali Muthal	6	4				6	4				Saved	20	<input type="checkbox"/>
41	Samadhan Nagare											Saved	0	<input checked="" type="checkbox"/>
42	Tejas Nikam											Saved	0	<input checked="" type="checkbox"/>
43	Gauri Pawar											Saved	0	<input checked="" type="checkbox"/>
44	Lina Pawar			4	4		6	4				Saved	18	<input type="checkbox"/>
45	Sarvadnya Pawar											Saved	0	<input checked="" type="checkbox"/>
46	Suraj Pawar											Saved	0	<input checked="" type="checkbox"/>
47	Nishita Prajapat	6	2				6	4				Saved	18	<input type="checkbox"/>
48	Avesh Saiyyad											Saved	0	<input checked="" type="checkbox"/>
49	Husain Saky	8	4				6	3				Saved	21	<input type="checkbox"/>
50	Namrata Salve	6	4						4	4	4	Saved	22	<input type="checkbox"/>
51	Aditya Satpute	6	4				7	4				Saved	21	<input type="checkbox"/>

		Unit Test 1												
		Q.1		Q.2			Q.3		Q.4					
Roll No	Name	Explain concep... [10.00 Marks]	Explain Surge ... [5.00 Marks]	What is line c... [5.00 Marks]	Explain regula... [5.00 Marks]	Explain effici... [5.00 Marks]	Explain phenom... [10.00 Marks]	State the prob... [5.00 Marks]	What is EHV st... [5.00 Marks]	State advantag... [5.00 Marks]	Explain Power ... [5.00 Marks]	Total	Mark As Absent	
52	Jasmin Shaikh											Saved	0	<input checked="" type="checkbox"/>
53	Owais Shaikh			4								Saved	4	<input type="checkbox"/>
54	Onkar Shelar	4	4				8	4				Saved	20	<input type="checkbox"/>
55	Swapnil Shimpi	7										Saved	7	<input type="checkbox"/>
56	Devidas Shinde		4				8	4				Saved	16	<input type="checkbox"/>
57	Payal Shinde	3	4				6	4				Saved	17	<input type="checkbox"/>
58	Rutuja Shinde											Saved	0	<input checked="" type="checkbox"/>
59	Siddhesh Shirsat											Saved	0	<input checked="" type="checkbox"/>
60	Sarthak Shukla											Saved	0	<input checked="" type="checkbox"/>
61	Prasad Sonar	6	4									Saved	10	<input type="checkbox"/>
62	Bhushan Sonawane	6	4				6	4				Saved	20	<input type="checkbox"/>
63	Durgesh Sonawane	4	2				2					Saved	8	<input type="checkbox"/>
64	Nayan Sonawane	3	4						4			Saved	11	<input type="checkbox"/>
65	Rutuja Sonawane	8							4	4		Saved	16	<input type="checkbox"/>
66	Swapnil Waghule											Saved	0	<input checked="" type="checkbox"/>
67	Mahek Tadavi			4					4		4	Saved	12	<input type="checkbox"/>
68	Monali Zade											Saved	0	<input checked="" type="checkbox"/>

	Explain concep...	Explain Surge ...	What is line c...	Explain regula...	Explain effici...	Explain phenom...	State the prob...	What is EHV st...	State advantag...	Explain Power ...
Number of student(s) attempted question	31	26	5	2	2	22	20	15	13	6
Percentage of student(s) above threshold	87.10	100.00	100.00	100.00	100.00	90.91	100.00	100.00	100.00	100.00
Linked course outcome	CO1	CO1	CO1	CO1	CO1	CO2	CO2	CO2	CO2	CO2
Attainment	3	3	3	3	3	3	3	3	3	3

Course outcome	CO2	CO1	CO3	CO4	CO5	CO 6
Final attainment	3.00	3.00				

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**Guru Gobind Singh College of Engineering & Research Centre, Nashik**  
Mechanical Engineering

**UNIT TEST - II - 2022-23**

**Subject :** [ 302049 ] Artificial Intelligence & Machine Learning - Theory **Faculty :** Vishal Dhore  
**Year :** THIRD YEAR - SEM-6: TEME **Marks :** 70 **Date :** 16/05/2023 **Duration :** 150 Minutes

- 1) Neat diagrams must be drawn wherever necessary.      2) Figures to the right side indicate full marks.  
3) Use of calculator is allowed.      4) Assume suitable data wherever necessary.  
5) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, and Q7 or Q8*

**Q.1 All questions are compulsory**

- 1.1 How does the Decision Tree algorithm Work for classification? **(6.00 Marks)**  
**Bloom's Level :** Understand, Remember **Course Outcome :** CO3
- 1.2 Differentiate between logistic regression and linear regression. **(6.00 Marks)**  
**Bloom's Level :** Analyze **Course Outcome :** CO3
- 1.3 Write a short notes on Random forest. **(6.00 Marks)**  
**Bloom's Level :** Apply **Course Outcome :** CO3

**Q.2 All questions are compulsory**

- 2.1 What is Support Vector Machine? How does the SVM work? **(6.00 Marks)**  
**Bloom's Level :** Understand, Remember **Course Outcome :** CO3
- 2.2 Explain following terms in decision tree  
i) entropy    ii) information gain    iii) Gini index **(6.00 Marks)**  
**Bloom's Level :** Evaluate, Understand **Course Outcome :** CO3
- 2.3 How does the Bayes algorithm differ from decision trees? **(6.00 Marks)**  
**Bloom's Level :** Apply, Remember **Course Outcome :** CO3

**Q.3 All questions are compulsory**

- 3.1 Explain the difference between training data and Testing data in a Dataset? How it is useful in a Machine Learning Model? **(8.00 Marks)**  
**Bloom's Level :** Analyze, Apply, Understand, Remember **Course Outcome :** CO4
- 3.2 Why data pre-processing is required? Explain the techniques in pre-processing. **(5.00 Marks)**  
**Bloom's Level :** Evaluate, Understand, Remember **Course Outcome :** CO4
- 3.3 Define following terms  
i) ACCURACY    ii) PRECISION    iii) RECALL    iv) F1SCORE **(4.00 Marks)**  
**Bloom's Level :** Understand, Remember **Course Outcome :** CO4

**Q.4 All questions are compulsory**

- 4.1 What are different hyperparameter tuning algorithms? Elaborate using an example. **(7.00 Marks)**  
**Bloom's Level :** Create, Evaluate, Remember **Course Outcome :** CO4
- 4.2 Explain the following terms :  
i) Over fitted model    ii) Underfitted model    iii) Good mode **(6.00 Marks)**  
**Bloom's Level :** Evaluate, Apply, Understand **Course Outcome :** CO4
- 4.3 State advantages and disadvantages of random forest. **(4.00 Marks)**  
**Bloom's Level :** Understand, Remember **Course Outcome :** CO4



### Q.5 All questions are compulsory

5.1 Explain types of reinforcement learning: (Positive & Negative reinforcement) (6.00 Marks)

**Bloom's Level :** Evaluate, Understand **Course Outcome :** CO5

5.2 Explain Q-Learning. (6.00 Marks)

**Bloom's Level :** Evaluate, Understand **Course Outcome :** CO5

5.3 State difference between Machine Learning and Deep Learning. (6.00 Marks)

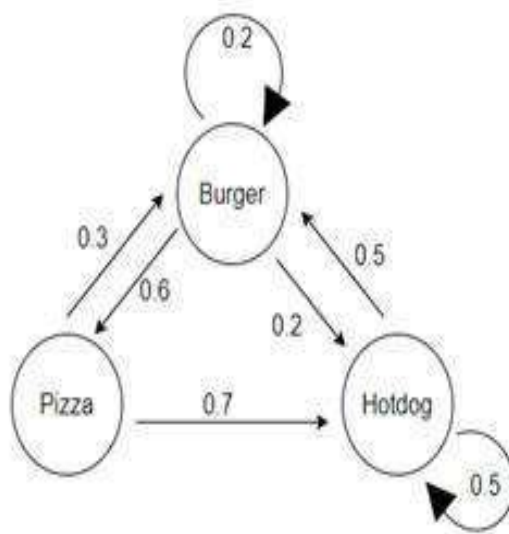
**Bloom's Level :** Remember **Course Outcome :** CO5

### Q.6 All questions are compulsory

6.1 Explain with a neat diagram equivalence of biological neurons and artificial neurons? (6.00 Marks)

**Bloom's Level :** Evaluate, Understand

6.2 A restaurant provides special discount on one of the items a day on pizza, burger, and hotdog as per the given Markov chain. Find out which items would be on discount for next 3 days if today the discount is on pizza. (6.00 Marks)



**Bloom's Level :** Evaluate, Remember **Course Outcome :** CO5

6.3 What is Convolutional Neural Network (CNN)? (6.00 Marks)

**Bloom's Level :** Apply, Remember **Course Outcome :** CO5

### Q.7 All questions are compulsory

7.1 Explain in detail the different applications of AIML. (8.00 Marks)

**Bloom's Level :** Evaluate, Understand **Course Outcome :** CO6

7.2 What are the advantages of using fault detection in Automobile cars? (5.00 Marks)

**Bloom's Level :** Understand, Remember **Course Outcome :** CO6

7.3 What are the different types of sensors used in Human-machine interactions? (4.00 Marks)

**Bloom's Level :** Apply, Remember **Course Outcome :** CO6

### Q.8 All questions are compulsory

8.1 Write a short note on the use of AIML in material inspection. (8.00 Marks)

**Bloom's Level :** Analyze, Apply **Course Outcome :** CO6

8.2 Write a short note on the use of AIML in traffic control. (5.00 Marks)

**Bloom's Level :** Apply **Course Outcome :** CO6

8.3 What are the different applications of AIML in health care? (4.00 Marks)

**Bloom's Level :** Remember **Course Outcome :** CO6

## Students Score - (UNIT TEST - II) Threshold 40%

		UNIT TEST - II													
Roll No	Name	Define followi... [6.00 Marks]	Differentiate... [6.00 Marks]	How does K Nea... [6.00 Marks]	What is Superor... [6.00 Marks]	Differentiate ... [6.00 Marks]	Is Naïve Bayes... [6.00 Marks]	Explain the di... [8.00 Marks]	Why data pre-p... [5.00 Marks]	Explain with ... [4.00 Marks]	What are diffe... [7.00 Marks]	Explain the fo... [6.00 Marks]	State advantag... [4.00 Marks]	Explain how re... [6.00 Marks]	Define followi. [6.00 Marks]
1	Kalpesh Adhav														
2	Aditya Kanawade	4	1												
3	Alan Abraham	1											4	6	
4	Atharva Parakhi							4		3					
5	Akash Avhad	5													
6	Nikhil Badgujar	1						4	2						
7	Satinder Pal Singh Bal														
8	Suyash Barhate	5	0					4						5	6
9	Tanveersingh Batra														
10	Saurabh Baviskar	4		6											
11	Aditya Bhor	4													
12	Bhavesh Borse	5	1	4				5	4					4	3
13	Rupesh Buwa	5	4	2											
14	Pranav Chaudhari	6	5									5			
15	Snehal Chavan	4	2					2	1						
16	Manish Das	5	0					2	2						
17	Pranav Desai	0										0	1		
18	Dhanashree Dhole	6	1					5	1					1	3
19	Shubham Dode	6	0												6
20	Pranil Gaikwad		0	1											
21	Umesh Gaikwad				5	5	3								
22	Roshan Gangurde	4													
23	Abhishek Gaud	2													
24	Yash Ghotekar	2		0				2	2						
25	Yash Gujare	5									4		4		
26	Harsh Saini				6	5	6	5		4				3	
27	Rushikesh Jadhav	1													

		UNIT TEST - II														
Roll No	Name	Define followi... [6.00 Marks]	Differentiate... [6.00 Marks]	How does K Nea... [6.00 Marks]	What is Super... [6.00 Marks]	Differentiate ... [6.00 Marks]	Is Naïve Bayes... [6.00 Marks]	Explain the di... [8.00 Marks]	Why data pre-p... [5.00 Marks]	Explain with ... [4.00 Marks]	What are diffe... [7.00 Marks]	Explain the fo... [6.00 Marks]	State advantag... [4.00 Marks]	Explain how re... [6.00 Marks]	Define followi... [6.00 Marks]	
28	Om Jagtap						3	2								
29	Krushna Kharote															
30	Hridhya Koolothvalapil															
31	Sahil Kshatriya	0												2		
32	Komal Landge	1												2		
33	Prajakta Lokhande															
34	Aaliya Maniyar				4		2									
35	Kunal Mehendale													3		
36	Deepali Mhaske															
37	Rohan Mojad	2														
38	Maithili More															
39	Niraj More	3	5	5				5	5	3						
40	Prathamesh Mule															
41	Devidas Nisal														4	
42	Abhishek Pandit													4	2	
43	Sudarshan Pansare	6	6	5				5								
44	Vivek Patil															
45	Mayuresh Pawar	5						3						3		
46	Swapnil Pawar	6	6	5												
47	Rohit Pujari															
48	Aayush Puranik	6		5							4	6	4	5	6	
49	Parag Ranalkar	4	3													6
50	Pranjal Salunkhe	1						1								
51	Yash Sardare	6														
52	Rohan Sarode	6		2												
53	Aditya Satpute	6		5												
54	Viraj Satpute	6		5				4	2					3	6	
55	Saurav Sawant	6		2				4								
56	Tabish Sayyad															

UNIT TEST - II															
Roll No	Name	Define followi... [6.00 Marks]	Differentiate... [6.00 Marks]	How does K Nea... [6.00 Marks]	What is Supeor... [6.00 Marks]	Differentiate ... [6.00 Marks]	Is Naïve Bayes... [6.00 Marks]	Explain the di... [8.00 Marks]	Why data pre-p... [5.00 Marks]	Explain with ... [4.00 Marks]	What are diffe... [7.00 Marks]	Explain the fo... [6.00 Marks]	State advantag... [4.00 Marks]	Explain how re... [6.00 Marks]	Define followi. [6.00 Marks]
57	Tohid Sayyed	5		5								6	4	3	5
58	Abdulmatin Shaikh	6						4							6
59	Faisal Siddiki														
60	Tejas Sirsath														
61	Sumit Sonawane	1													
62	Swapnil Surywanshi	5													
63	Gaurav Tekade														
64	Nishikant Thakare														
65	Chaitanya Thormothe	0													
66	Shraddha Tonde				0									0	
67	Yash Vishwakarma	6										6		4	6
68	Yash Vishwakarma	5													
69	Rushikesh Wagh	2													
70	Suyog Wakchaure	6	2	3				4	2						
71	Om Vadtele														

SAVE ALL

	Define followi...	Differentiate...	How does K Nea...	What is Supeor...	Differentiate ...	Is Naïve Bayes...	Explain the di...	Why data pre-p...	Explain with ...	What are diffe...	Explain the fo...	State advantag...	Explain how re...	Define followi...	Define Markov ...
Number of student(s) attempted question	44	15	15	4	2	4	18	9	3	2	5	5	15	12	2
Percentage of student(s) above threshold	70.45	40.00	66.67	75.00	100.00	75.00	66.67	77.78	100.00	100.00	80.00	80.00	73.33	91.67	0.00
Linked course outcome	CO3	CO3	CO3	CO3	CO3	CO3	CO4	CO4	CO4	CO4	CO4	CO4	CO5	CO5	CO5
Attainment	2	1	2	2	3	2	2	2	3	3	2	2	2	3	1

Course outcome	CO1	CO2	CO3	CO4	CO5	CO6
Final attainment			2.00	2.33	1.33	2.50

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## Guru Gobind Singh College of Engineering & Research Centre, Nashik

Civil Engineering

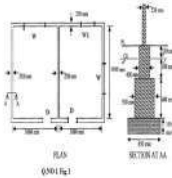
### Preliminary examination - 2022-23

**Subject :** [ 401012 ] Quantity Surveying, Contracts and Tenders - Theory

**Year :** FINAL YEAR - Sem - 8: BECE **Marks :** 70 **Date :** 17 May, 2023 **Duration :** 150 Minutes

Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8 Figure to right indicate full marks Assume suitable data if necessary Use of electronic calculator permitted

- 1 **Q.No 1** The Plan and sectional elevation of the building are shown in Fig.1. Estimate the quantities for the following items of works by centre line method (i) Earthwork in Excavation foundation (ii) Plain Cement Concrete for Foundation (iii) 1st class Brickwork for (iv) Concrete for roof slab (thickness of slab = 100 mm) (v) Quantity of steel for roof slab and lintel over door & window, assuming 0.7 % for slab and 1% Lintel (2) **Schedule for opening D= 0.90m x 2.10m, W= 1.20m x 1.5m, W1=0.90 m x 1.50m** (18.00 Marks)



**Bloom's Level :** Evaluate, Analyze, Apply **Course Outcome :** CO3

- 2 **Q.No 3** Prepare the estimate for earthwork for a proposed road from chainage 5 to 15. The detailed Reduced levels along the centre line of proposed road is given. The formation level at 5<sup>th</sup> chainage is 110 and road has a downward gradient of 1 in 150 upto chainage of 9 and further changes to downward gradient of 1 in 100. Formation width is 10 m and side slopes of banking is 2:1. The chain length is 30m (17) (17.00 Marks)

**Bloom's Level :** Evaluate, Analyze **Course Outcome :** CO4

- 3 **Q.No 4** In a simply supported beam of depth 450mm is provided with a 3, 20mm diameter bar at bottom, in this one bar is provided as bent up bar near both the supports. 10mm stirrups are provided with top and bottom cover 25mm. Calculate the additional length provided for bent up in both end. If the (i) bent up angle is 45° and (ii) bent up angle is 30° (17) (17.00 Marks)

**Bloom's Level :** Evaluate, Analyze **Course Outcome :** CO3

- 4 **Q.No 5** What is the difference between brief specification and detailed specification of an item? Explain with an example. What is the purpose of specifications ? (6) b) Write down the detailed specification of the following (8) (i) Cement concrete in foundation (ii) Plastering in cement mortar 1:6 c) Write brief/ general specification for first class building (4) (18.00 Marks)

**Bloom's Level :** Apply, Understand **Course Outcome :** CO5

- 5 **Q.No 6** a) Estimate the quantities of brickwork and plastering required in a wall 4m long, 3m high and 30 cm thick. Calculate also the cost if the rate of brickwork. (6) b) Calculate the quantity of cement, aggregate and sand for following. (6) i) 35 cum. of P.C.C. in 1:3:6 ii) 180 sqm of cement plaster 20mm thick in C.M. 1:4 c) Work out the quantity of given materials required for 1:1.5:3 concrete and analyse the unit rate using the details given below: (6) (18.00 Marks)

**Bloom's Level :** Create, Evaluate **Course Outcome :** CO5

- 6 **Q.No 7** a) Discuss the importance of valuation in civil engineering and its purpose? (6) b) Discuss about freehold and lease hold property. (6) c) Write the difference between depreciation and obsolescence with necessary example (6) (17.00 Marks)

**Bloom's Level :** Apply, Understand **Course Outcome :** CO6

- 7 **Q.No 8** a) Discuss about different methods for finding valuation of a building. Enlist different methods for valuation of land? Explain Belting method of valuation for land with an example. (6) b) Discuss the following terms i) Scrap value ii) Market value iii) Rental return method of valuation (6) c) An old building is purchased by a person at a cost of Rs 10,0000/- excluding cost of land. Calculate the amount of sinking fund at 4% interest assuming the future life of building as 25 years and the scrap value as 10% of the cost of purchase (5) (17.00 Marks)

**Bloom's Level :** Analyze, Apply **Course Outcome :** CO6

- 8 **Q.No 2** In a Simply supported beam of depth 450mm is provided with 03, 22mm Diameter bar at bottom, in this one bar is bent up near both supports. 10mm stirrups are provided with top and bottom cover 25 mm. Calculate the additional length provided for bent up in both the end. If the (i) Bent up angle is 45 Degree and (ii) Bent up angle is 30 Degree. (17.00 Marks)

**Bloom's Level :** Evaluate **Course Outcome :** CO3

## Students Score - (Preliminary examination) Threshold 40%

Roll No	Name	Preliminary examination								Total	Mark As Absent	
		Q.No 1 The Pl... [18.00 Marks]	Q.NO 3 Prepar... [17.00 Marks]	Q.No 4 In a si... [17.00 Marks]	Q.No 5 What is... [18.00 Marks]	Q.NO 6 a) Esti... [18.00 Marks]	Q.NO 7 a) Disc... [17.00 Marks]	Q.No 8 a) Dis... [17.00 Marks]	Q.NO 2. In a ... [17.00 Marks]			
1	Anupam Ambhore									Saved	0	<input checked="" type="checkbox"/>
3	Roshni Mali						0			Saved	0	<input type="checkbox"/>
4	Gulamoin Shaikh	16			4	6	3			Saved	29	<input type="checkbox"/>
5	Deepanshu Ahire									Saved	0	<input checked="" type="checkbox"/>
6	Harshal Baviskar	3		15						Saved	18	<input type="checkbox"/>
7	Omkar Bedade									Saved	0	<input checked="" type="checkbox"/>
8	Abhishek Bhabad	0								Saved	0	<input type="checkbox"/>
9	Vaishnavi Bhagwat									Saved	0	<input checked="" type="checkbox"/>
10	Dhananjay Chavan									Saved	0	<input checked="" type="checkbox"/>
11	Janvi Chavan	16								Saved	16	<input type="checkbox"/>
12	Pratik Chavhan					4	9			Saved	13	<input type="checkbox"/>
13	Yash Dhakane						6			Saved	6	<input type="checkbox"/>
14	Tanmayee Dighe						4			Saved	4	<input type="checkbox"/>
15	Tushar Dive						8	3		Saved	11	<input type="checkbox"/>
16	Harshwardhan Donde								16	Saved	16	<input type="checkbox"/>
17	Aniket Fulpagare									Saved	0	<input checked="" type="checkbox"/>
18	Sarika Gavhane	3								Saved	3	<input type="checkbox"/>
19	Sandesh Ghode	4			0	3				Saved	7	<input type="checkbox"/>
20	Akshata Ghumare	0								Saved	0	<input type="checkbox"/>
21	Shweta Gite	4					7	2		Saved	13	<input type="checkbox"/>
22	Gayatri Gosavi									Saved	0	<input checked="" type="checkbox"/>
23	Apoorva Jadhav	6					5			Saved	11	<input type="checkbox"/>
24	Dhanshree Jagale						3			Saved	3	<input type="checkbox"/>
25	Vaishnavi Kale	8				5		4		Saved	17	<input type="checkbox"/>
26	Komal Kamble	0				3				Saved	3	<input type="checkbox"/>
27	Nikhil Kulkarni	4								Saved	4	<input type="checkbox"/>
28	Mohini Mahale									Saved	0	<input checked="" type="checkbox"/>
29	Monis Mansuri				1		5			Saved	6	<input type="checkbox"/>
30	Ashutosh Mhaske	2			5		3			Saved	10	<input type="checkbox"/>
31	Gauri More				6					Saved	6	<input type="checkbox"/>
32	Shweta Mungse	4					4			Saved	8	<input type="checkbox"/>

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33	Shivam Nikam						3	1		Saved	4	<input type="checkbox"/>
34	Sakshi Pajai	16						3		Saved	19	<input type="checkbox"/>
35	Prathmesh Patil	10				0		4		Saved	14	<input type="checkbox"/>
36	Suraj Patil									Saved	0	<input checked="" type="checkbox"/>
37	Janhavee Salve	1					1			Saved	2	<input type="checkbox"/>
38	Ketki Sansare	10					4			Saved	14	<input type="checkbox"/>
39	Afrin Shaikh			16	4		4	4		Saved	28	<input type="checkbox"/>
40	Shamayela Shaikh	6			4		4	4		Saved	18	<input type="checkbox"/>
41	Shahad Shaikh	4							10	Saved	14	<input type="checkbox"/>
42	Jayshree Shelke	16		14			3			Saved	33	<input type="checkbox"/>
43	Pranita Shirode			2				4		Saved	6	<input type="checkbox"/>
44	Vrushali Shisav						2			Saved	2	<input type="checkbox"/>
45	Jaydeep Tamkhane	16								Saved	16	<input type="checkbox"/>
46	Yash Thakare	12					1			Saved	13	<input type="checkbox"/>
47	Shivani Thakur									Saved	0	<input checked="" type="checkbox"/>
48	Ram Vadaje	10						12		Saved	22	<input type="checkbox"/>
49	Mukesh Varma									Saved	0	<input checked="" type="checkbox"/>
50	Deepak Vishwakarma	0					0			Saved	0	<input type="checkbox"/>
51	Aashang Ade				5					Saved	5	<input type="checkbox"/>
52	Dipali Bahiram	3				3	6			Saved	12	<input type="checkbox"/>
53	Gaurav Bhamare					2		6		Saved	8	<input type="checkbox"/>
54	Vijayraj Bhamare									Saved	0	<input checked="" type="checkbox"/>
55	Nilesh Chauhan	0								Saved	0	<input type="checkbox"/>
56	Anushka Deochake				5		6	6		Saved	17	<input type="checkbox"/>
57	Janhavi Deshmukh						2			Saved	2	<input type="checkbox"/>
58	Vrushabh Gavit						7			Saved	7	<input type="checkbox"/>
59	Apurva Ingale									Saved	0	<input checked="" type="checkbox"/>
60	Mayuresh Jachak	16								Saved	16	<input type="checkbox"/>
62	Siddhant Jadhav	0								Saved	0	<input type="checkbox"/>
63	Bhanudas Jagtap	14								Saved	14	<input type="checkbox"/>
64	Shreyash Jagzap	14								Saved	14	<input type="checkbox"/>
65	Akshay Khairnar	4								Saved	4	<input type="checkbox"/>
66	Sarim Khan	14								Saved	14	<input type="checkbox"/>

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		Q.No 1 The Pl... [18.00 Marks]	Q.NO 3 Prepar... [17.00 Marks]	Q.No 4 In a si... [17.00 Marks]	Q.No 5 What is... [18.00 Marks]	Q.NO 6 a) Esti... [18.00 Marks]	Q.NO 7 a) Disc... [17.00 Marks]	Q.No 8 a) Dis... [17.00 Marks]	Q.NO 2. In a ... [17.00 Marks]			
67	Sayali Lokhande	3					4			Saved	7	<input type="checkbox"/>
68	Rushikesh Mogal									Saved	0	<input checked="" type="checkbox"/>
69	Rohan More	0			3					Saved	3	<input type="checkbox"/>
70	Samad Pathan	0								Saved	0	<input type="checkbox"/>
71	Mohit Patil	10					1			Saved	11	<input type="checkbox"/>
72	Suraj Phad	14								Saved	14	<input type="checkbox"/>
73	Samiksha Ranshur									Saved	0	<input checked="" type="checkbox"/>
74	Archana Sanap				4		7			Saved	11	<input type="checkbox"/>
75	Sejal Satpute									Saved	0	<input checked="" type="checkbox"/>
76	Aksa Shaikh	10		14		4				Saved	28	<input type="checkbox"/>
77	Ayan Shaikh				3		6			Saved	9	<input type="checkbox"/>
78	Moiz Shaikh						2	2		Saved	4	<input type="checkbox"/>
79	Rohan Shelke	2					3			Saved	5	<input type="checkbox"/>
80	Mitali Shimpi						2			Saved	2	<input type="checkbox"/>
81	Shridhar Shinde	0								Saved	0	<input type="checkbox"/>
82	Trupti Shinde									Saved	0	<input checked="" type="checkbox"/>
83	Roshan Singh	2								Saved	2	<input type="checkbox"/>
84	Shubham Sonaje	4								Saved	4	<input type="checkbox"/>
85	Anushka Suryawanshi	0								Saved	0	<input type="checkbox"/>
86	Nisha Thakare	2								Saved	2	<input type="checkbox"/>
87	Adarsh Tripathi	2		10					4	Saved	16	<input type="checkbox"/>
88	Pranaya Velhal									Saved	0	<input checked="" type="checkbox"/>
89	Vishakha Avhad						3			Saved	3	<input type="checkbox"/>

SAVE ALL

	Q.No 1 The Pl...	Q.NO 3 Prepar...	Q.No 4 In a si...	Q.No 5 What is...	Q.NO 6 a) Esti...	Q.NO 7 a) Disc...	Q.No 8 a) Dis...	Q.NO 2. In a ...
Number of student(s) attempted question	46	0	6	12	9	34	12	3
Percentage of student(s) above threshold	36.96		83.33	0.00	0.00	17.65	0.00	66.67
Linked course outcome	CO3	CO4	CO3	CO5	CO5	CO6	CO6	CO3
Attainment	0	0	3	0	0	0	0	2

Course outcome	CO1	CO2	CO3	CO4	CO5	CO6
Final attainment			1.67	0.00	0.00	0.00



