DTE Code : ENGB15

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SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Sanjeevan Path Jogale, Panhala, Tal. Panhala, Dist. Kolhapur
Pin- 416 201 (Maharashtra) Phone : 02466-220560

Approved By AICTE, New Delhi & Recognized by Govt. of Maharashtra & DTE
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.

Academic Calendar for A.Y. 2023-2024 (Even Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
FEBRUARY				1	2	3	4	2	1- Commencement of Classes
	5	6	7	8	9	10	11	6	
	12	13	14	15	16	17	18	5	
	19	20	21	22	23	24	25	5	19- Chhatrapati Shivaji Maharaj Jayanti
	26	27	28	29				4	29-CA-01
MARCH					1	2	3	1	1-CA-01
	4	5	6	7	8	9	10	5	4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri
	11	12	13	14	15	16	17	5	
	18	19	20	21	22	23	24	6	23- Parikrama
	25	26	27	28	29	30	31	3	25-Dhulivandan, 29-Good Friday
APRIL	1	2	3	4	5	6	7	5	
	8	9	10	11	12	13	14	4	9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti
	15	16	17	18	19	20	21	5	17-Shri Ram Navami, 18-20- MSE, 21-Mahavir Jayanti
	22	23	24	25	26	27	28	6	
	29	30						2	
MAY			1	2	3	4	5	2	1-Maharashtra Din
	6	7	8	9	10	11	12	6	9&10 -CA-02
	13	14	15	16	17	18	19	5	
	20	21	22	23	24	25	26	5	23-Buddha Pounima, 25- End of Classes
	27	28	29	30	31				27-31- Practical Examination
JUNE						1	2		
	3	4	5	6	7	8	9		3-14- End Semester Exam.
	10	11	12	13	14	15	16		
	17	18	19	20	21	22	23		17- Bakri Id (Id-Ul-Zuha)
	24	25	26	27	28	29	30		
Govt. Holiday		CA/MSE/Pract. Exam/ESE						80	29 July - Result Declaration, 01 Aug- Commencement of Classes for Next Semester
Activities		Institute Holiday							

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each department shall prepare their departmental calendar to reflect departmental .....activities, Industrial Visits and Student Intrenships etc.

Dean Academics

Principal

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth

DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S

SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur
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Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.

Academic Calendar for A.Y. 2023-2024 (Odd Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
AUGUST		1	2	3	4	5	6	0	4- Commencement meeting
	7	8	9	10	11	12	13	6	7- Reporting & Commencement of Classes, 7-12- FY Orientation
	14	15	16	17	18	19	20	3	15 - Independence Day,16 -Parsi New Year
	21	22	23	24	25	26	27	6	
	28	29	30	31				4	
SEPTEMBER					1	2	3	1	
	4	5	6	7	8	9	10	6	8,9 CA-1
	11	12	13	14	15	16	17	5	15- Engineer's Day Celebration
	18	19	20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet
	25	26	27	28	29	30		4	28- Eid-e-Milad
OCTOBER							1	0	
	2	3	4	5	6	7	8	4	02- Mahatma Gandhi Jayanti, 03-06- Mid Semester Exam.
	9	10	11	12	13	14	15	6	
	16	17	18	19	20	21	22	5	
	23	24	25	26	27	28	29	5	24-Dussehra
	30	31						2	
NOVEMBER			1	2	3	4	5	3	
	6	7	8	9	10	11	12	6	09,10-CA-2, 12- Laxmi Pujan
	13	14	15	16	17	18	19	4	14- Bali Pratipada
	20	21	22	23	24	25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM
	27	28	29	30				0	27- Guru Nanak Jayanti
DECEMBER					1	2	3	0	01-13 End Semester Examination
	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training
	11	12	13	14	15	16	17	0	
	18	19	20	21	22	23	24	0	
	25	26	27	28	29	30	31	0	25- Christmas
Govt. Holiday			CA/MSE/Pract. Exam/ESE					78	01st January 2024 Commencement of Classes for Next semester
Activities			Institute Holiday						

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each Department shall prepare their separate calendar to reflect departmental activities, Industrial Visits and Student Intrenships

Dean Academics

Principal

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Somwar Peth, Panhala - 416 201

DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-9019451
AISHE Code : C-11165

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Phone : 9146999500

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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 04th October, 2023.

NOTICE

All the students of Second Year (S. Y.) Electrical Engineering Department are to be informed that **Continuous Assessment - 1 (CA1) Examination** is scheduled from **06th October, 2023 & 09th October, 2023.**

Note: All students complete the admission processes (Reporting to Institute) for the academic year 2023 - 24 in office. Those student not completed this processes is not eligible for CA1 examination.

Departmental Exam Incharge
Mr. V. T. Metkari

H.O.D.
Dr. D. S. Bhosale

Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute,
Somwar Peth, Panhala - 416 201

SANJEEVAN ENGG. TECH INSTITUTE PANHALA

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) – October 2023

TIME TABLE (Odd Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: S. Y. B. Tech_Sem - III

Date: 04.10.2023

Day & Date	Time	Subject Code	Name of Subject
FRI 06.10.2023	02.15 PM to 02.45 PM	BTEEC303	Electrical & Electronics Measurement
	03.30 PM to 04.00 PM	BTES305	Engineering Material Science
MON 09.10.2023	02.15 PM to 02.45 PM	BTBS301	Engineering Mathematics-III
	03.30 PM to 04.00 PM	BTEEC302	Electrical Machines-I

Departmental Exam Co-Ordinator
Mr. V. T. Metkari

H.O.D.
Dr. D. S. Bhosale

Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) – October 2023

TIME TABLE (Odd Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: T. Y. B. Tech_Sem - V

Date: 04.10.2023

Day & Date	Time	Subject Code	Name of Subject
FRI 06.10.2023	03.30 PM to 04.00 PM	BTEEC502	Microprocessor and Microcontroller

Departmental Exam Co-Ordinator
Mr. V. T. Metkari

H.O.D.
Dr. D. S. Bhosale

Head of the Department
Electrical Engineering
Sanjeevan Engg. and Tech. Inst.
Someshwar Peth, Panhala - 416 201

SANJEEVAN ENGG. TECH INSTITUTE PANHALA

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Sanjeevan Engg. & Tech. Institute
Someshwar Peth, Panhala - 416 201

DTE Code : EN6315

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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 08th November, 2023.

NOTICE

All the students of Electrical Engineering Department are to be informed that **Continuous Assessment - 2 (CA2) Examination** is scheduled on **10th November, 2023.**

Note: Attendance is compulsory for CA2 examination.

All students should complete Institute Fee before examination.

Departmental Exam Incharge
Mr. V. T. Metkari

H.O.D.
Dr. V. V. Puranik

Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

ENGG. TECH INSTITUTE PANHALA

PRINCIPAL

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 2 (CA2) – November 2023

TIME TABLE (Odd Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: S. Y. B. Tech_Sem - III

Date: 08.11.2023

Day & Date	Time	Subject Code	Name of Subject
FRI 10.11.2023	09.30 AM to 10.00 AM	BTBS301	Engineering Mathematics-III
	11.30 AM to 12.00 AM	BTES305	Engineering Material Science

Departmental Exam Co-Ordinator
Mr. V. T. Metkari

H.O.D.
Dr. V. V. Puranik

Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

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Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 2 (CA2) – November 2023

TIME TABLE (Odd Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: T. Y. B. Tech_Sem - V

Date: 08.11.2023

Day & Date	Time	Subject Code	Name of Subject
FRI 10.11.2023	09.30 AM to 10.00 AM	BTEEC501	Power System Analysis
	11.30 AM to 12.00 AM	BTEEPE504A	HVDC

Departmental Exam Co-Ordinator
Mr. V. T. Metkari

H.O.D.
Dr. V. V. Puranik

Head of the Department

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 2 (CA2) – November 2023

TIME TABLE (Odd Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: B. Tech_Sem - VII

Date: 08.11.2023

Day & Date	Time	Subject Code	Name of Subject
FRI 10.11.2023	09.30 AM to 10.00 AM	BTEEC702	Power System Operation & Control
	11.30 AM to 12.00 AM	BTEEPE703D	Electrical Utilization

Departmental Exam Co-Ordinator
Mr. V. T. Metkari

H.O.D.
Dr. V. V. Puranik
Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute
Sonwar Peth, Panhala - 416 201

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ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Somwar Peth Taluka: Panhala, Dist: Kolhapur, Pin- 416 201 (Maharashtra). Phone : 9146999500

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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 22th February, 2024.

NOTICE

All the faculty members are hereby informed that Continuous Assessment - 1 (CA1) for Examination (S. Y.)& (T. Y.) is scheduled from 28th February, 2024 to 01st March,2024. Kindly Submit hard copy of your question paper in NAAC Format to Mr. V. T. Metkari sir and e-mail the soft copy to vishal.metkari@seti.edu.in on or before Monday 26th February, 2024.

Departmental Exam Co – ordinator
Mr. V. T. Metkari

H. O. D.
Mr. V. T. Metkari

SANJEEVAN ENGG. TECH INSTITUTE PANHALA

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) – February 2024

TIME TABLE (Even Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: S. Y. B. Tech_Sem - IV

Date: 21.02.2024

Day & Date	Time	Subject Code	Name of Subject
WED 28.02.2024	02.15 PM to 02.45 PM	BTEEC401	Network Theory
	03.30 PM to 04.00 PM	BTEEC402	Power System
THU 29.02.2024	02.15 PM to 02.45 PM	BTEEC403	Electrical Machines-II
	03.30 PM to 04.00 PM	BTBS404	Analog and Digital Electronics
FRI 01.03.2024	09.30 AM to 10.30 AM	BTEEPE405C	Advance Renewable Energy Sources

Note: Student has to pay of their total tution fee before CA1.
Define dresscode is compulsory for Examination.

Departmental Exam Co-Ordinator
Mr. V. T. Metkari

H. O. D.
Mr. V. T. Metkari

Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

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Somwar Peth, Panhala - 416 201

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DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) – February 2024

TIME TABLE (Even Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: T. Y. B. Tech_Sem - VI

Date: 21.02.2024

Day & Date	Time	Subject Code	Name of Subject
WED 28.02.2024	02.15 PM to 02.45 PM	BTEEC601	Switchgear Protection
	03.30 PM to 04.00 PM	BTEEC602	Electrical Machine Design
THU 29.02.2024	02.15 PM to 02.45 PM	BTEEC603	Control System Engineering
	03.30 PM to 04.00 PM	BTEEPE604B	Smart Grid Technology
FRI 01.03.2024	09.30 AM to 10.30 AM	BTEEOE605B	Power Plant Engineering

Note: Student has to pay of their total tution fee before CA1.
Define dresscode is compulsory for Examination.

Departmental Exam Co-Ordinator
Mr. V. T. Metkari

H. O. D.
Mr. V. T. Metkari
Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 8th May, 2024.

NOTICE

All the students of S.Y & T.Y. Electrical Engineering Department are to be informed that **Continuous Assessment - 2 (CA2) Examination** is scheduled from **9th May, 2024 to 10th May, 2024.**

- **The entire Student has to pay of their total tuition fee before CA2.**
- **Defined Dress Code is compulsory for Examination.**
- **CA2 Exam will not Reconducted for Absent Student.**

Departmental Exam Incharge
Mr. V. T. Metkari

H.O.D.
Mr. V. T. Metkari

Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute,
Somwar Peth, Panhala - 416 201

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DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 2 (CA2) - February 2024

TIME TABLE (Even Semester) YEAR 2023 - 2024

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: Combine Time Table Sem - IV & VI

Date: 08.05.2024

Day & Date	Time	Class	Subject Code	Name of Subject
Thursday 09.05.2024	12.30 PM to 01.00 PM	S.Y.	BTEEC401	Network Theory
		T.Y.	BTEEC601	Smart Grid Technology
	02.15 PM to 02.45 PM	S.Y.	BTEEC402	Power System
		T.Y.	BTEEOE605B	Power Plant Engineering
	03.30 PM to 04.00 PM	S.Y.	BTEEPE405C	Advance Renewable Energy Sources
		T.Y.	BTEEC602	Electrical Machine Design
Friday 10.05.2024	02.15 PM to 02.45 PM	S.Y.	BTEEC403	Electrical Machines-II
		T.Y.	BTEEC603	Control System Engineering
	03.15 PM to 03.45 PM	S.Y.	BTBS404	Analog and Digital Electronics
		T.Y.	BTEEPE604B	Switchgear Protection

Departmental Exam Co-Ordinator

Mr. V. T. Metkari

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

H.O.D.

Mr. V. T. Metkari

Head of Department
Electrical Engineering
Sanjeevan Engg. & Technology Institute
Somwar Peth, Panhala

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Examination Section

Date 20/10/2023

Notification

It is informed to all First and Second year students that **B. Tech Mid Semester Examinations** will be conducted from **26 October to 28 October 2023.**

Examinations	Semester	Scheduled Examinations
Mid Semester Examination 2023	I & III	26 October to 28 October 2023

Exam Instructions for Students

1. Before the Exam Check the exam timetable carefully. Make sure you know the time and locations of your exams.
2. Bring your Student ID. You will not be allowed into the exam hall without Student ID.
3. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
4. Ensure that you use the washroom before arriving for your exam as you will not be permitted to leave the Exam hall during Examination period.
5. Normally, you are required to answer questions using blue ink. Make sure you bring some spare pens with you.
6. Arrive at least 15 minutes before the exam is due to start and wait outside until you are allowed in.

Sr. No.	Details	Signature
1	HOD - Electrical	
2	HOD – Civil	
3	HOD – Computer	
4	HOD – Mechanical	
5	HOD - BSH	

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

SANJ. ENGG. & TECH. INSTITUTE PANHALA

Copy fwd. to:

1. All Heads of the departments, S.E.T.I. Panhala
2. All Department Exam coordinators, S.E.T.I. Panhala
3. Student notice board

Examination Coordinator **Academic Dean** **PRINCIPAL**

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Holy-wood Academy, Kolhapur

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA.

MID SEMESTER EXAMINATION TIME TABLE - October-2023

A.Y. 2023-24

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday, 26/10/2023	10.00 am To 11.00am	Computer	SY	BTBS301	Engineering Mathematics –III
		Civil	SY	BTBS301	Mathematics – III
		Electrical	SY	BTBS301	Engineering Mathematics-III
		Mechanical	SY	BTBS301	Engineering Mathematics III
		First Year	All Div	BTBS101	Engineering Mathematics - I
	02.30 pm To 03.30 pm	Computer	SY	BTCOC302	Discrete Mathematics
		Civil	SY	BTCVES302	Mechanics of Solids
		Electrical	SY	BTEEC302	Electrical Machines-I
		Mechanical	SY	BTMEC302	Fluid Mechanics
		First Year	Div A & B	BTBS102	Engineering Physics
			Div C	BTBS102	Engineering Chemistry
Friday, 27/10/2023	10.00 am To 11.00am	Computer	SY	BTCOC303	Data Structures
		Civil	SY	BTCVC303	Building Construction & Drawing
		Electrical	SY	BTEEC303	Electrical & Electronics Measurement
		Mechanical	SY	BTMC303	Thermodynamics
		First Year	Div A & B	BTES103	Engineering Graphics
			Div C	BTES103	Engineering Mechanics
	02.00 pm To 03.00 pm	Computer	SY	BTCOC304	Computer Architecture & Organization
		Civil	SY	BTCVC304	Hydraulics -I
		Electrical	SY	BTES305	Engineering Material Science
		Mechanical	SY	BTMES304	Material Science & Metallurgy
		First Year	Div A & B	BTHM104	Communication Skills
			Div C	BTES104	Computer Programming in C
Saturday, 28/10/2023	10.00 am To 11.00am	Computer	SY	BTCOC305	(b) Object Oriented Programming in Java
		Civil	SY	BTCVC305	Surveying
		First Year	Div A & B	BTES105	Energy and Environment Engineering

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DTE Code : EN6315

HOLY-WOOD ACADEMY'S
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O Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

Date 09/10/2023 ~~10/09/2023~~

Examination Section

Notification

It is informed to all Final and Third year students that **B. Tech Mid Semester Examinations** will conducted from **12 October to 14 October 2023.**

Examinations	Semester	Scheduled Examinations
Mid Semester Examination 2023	V and VII	12 October to 14 October 2023

Exam Instructions for Students

1. Before the Exam Check the exam timetable carefully. Make sure you know the time and locations of your exams.
2. Bring your Student ID. You will not be allowed into the exam hall without Student ID.
3. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
4. Ensure that you use the washroom before arriving for your exam as you will not be permitted to leave the Exam hall during Examination period.
5. Normally, you are required to answer questions using blue ink. Make sure you bring some spare pens with you.
6. Arrive at least 15 minutes before the exam is due to start and wait outside until you are allowed in.

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1	HOD - Electrical	
2	HOD – Civil	
3	HOD – Computer	
4	HOD – Mechanical	
5	HOD - BSH	

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2. All Department Exam coordinators, S.E.T.I. Panhala

Examination Coordinator **Academic Dean** **PRINCIPAL**

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Holy-wood Academy, Kolhapur

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA.

MID TERM EXAMINATION - October-2023 TIME TABLE A.Y. 2023-24

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday 12/10/2023	10.00 am To 11.00am	Computer	TY	BTCOC501	Database Systems
			B.Tech	BTCOC701	Artificial Intelligence
		Civil	TY	BTCVC 501	Design of Steel Structures
			B.Tech	BTCVC701	Design of Concrete Structures - II
		Electrical	TY	BTEEC501	Power System Analysis
			B.Tech	BTEEC701	High Voltage Engineering
		Mechanical	TY	BTMC501	Heat Transfer
			B.Tech	BTMEC701	Mechatronics
	02.30 pm To 03.30 pm	Computer	TY	BTCOC502	Theory of Computation
			B.Tech	BTCOE702	Cloud Computing
		Civil	TY	BTCVC 502	Geotechnical Engineering
			B.Tech	BTCVC702	Infrastructure Engineering
		Electrical	TY	BTEEC502	Microprocessor and Microcontroller
			B.Tech	BTEEC702	Power System Operation & Control
		Mechanical	TY	BTMC502	Machine Design - I
			B.Tech	BTMEC702	Industrial Engineering and Management
Friday, 13/10/2023	10.00 am To 11.00am	Computer	TY	BTCOC503	Software Engineering
			B.Tech	BTCOE703	c) Big data Analytics
		Civil	TY	BTCVC 503	Structural Mechanics –II
			B.Tech	BTCVC703	Water Resources Engineering
		Electrical	TY	BTEEC503	Power Electronics
			B.Tech	BTEEOE703	Electrical Utilization
		Mechanical	TY	BTMC503	Theory of Machines -II
			B.Tech	BTMEC703D	Advanced IC Engines
	02.30 pm To 03.30 pm	Computer	TY	BTCOE504	a) Human Computer Intereaction
			B.Tech	BTCOE704	a) Cryptography and Network Security
		Civil	TY	BTCVC 504	Concrete Technology
			B.Tech	BTCVC704	Professional Practices
		Electrical	TY	BTEEPE504	(A) HVDC
			B.Tech	BTEEOE704	Mechantronics
		Mechanical	TY	BTAPE504D	Automobile Engineering
			B.Tech	BTMEC704C	Pant Maintenance
Saturday, 14/10/2023	10.00 am To 11.00am	Computer	TY	BTHM505	(b) Business Communication
			B.Tech	BTCOE705	b) Deep Learning
		Civil	TY	BTHM505	Project Management
			B.Tech	BTCVE705A	Construction Techniques
		Electrical	TY	BTEEOE505	(B) Electrical Safety
			B.Tech	BTEEOE705	Electric and Hybrid Electric vehicles
		Mechanical	TY	BTMOE505C	Human Resource Management
			B.Tech	BTMOE705C	Intellectual Property Rights
	02.30 pm To 03.30 pm	Civil	TY	BTCVPE506	Material, Testing and Evaluation
			B.Tech	BTCVOE706D	Introduction to Earthquake Engineering
		Mechanical	TY	BTMEC502	Applied Thermodynamics

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Sanjeevan Engineering and Technology Institute, Panhala
Examination Department
Examination Duties Mid Semester Examination 2022-23

Sr. No.	Dept	Name of Staff	Role	12/10/2023		13/10/2023		14/10/2023		
				10:00 to 11:00	2:30 to 3:30	10:00 to 11:00	2:30 to 3:30	10:00 to 11:00	2:30 to 3:30	Faculty sign
1	Electrical	Mr. Hebale B S	Jr. Supervisor	1				1		
2		Vinayak	Jr. Supervisor		1		1			
3		Mr. Naik Yogesh	Jr. Supervisor	1						
4		Mr. Nilesh Jadhav	Jr. Supervisor				1			

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

ass – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

ite – 10 /05 /2024 Time – 09:30 am to 10:00 am

ıme of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

o	Question	Ans	CO	PO	Mks
	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation		4	1	
	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid		4	1	
	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation		4	1	
	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors		4	1	
	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False		3	1	
	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe		3	1	
	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene		3	1	
	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical free d) Light weight & corrosion		3	1	
	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		5	1	
	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above		5		

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 10 /05 /2024 Time – 09:30 am to 10:00 am

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation	B	4	1	
2	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid	A	4	1	
3	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation	B	4	1	
4	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors	B	4	1	
5	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False	B	3	1	
6	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe	C	3	1	
7	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene	B	3	1	
8	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical d) Light weight & corrosion free	D	3	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	5	1	
10	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above	D	5	1	

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
	SEMESTER: IV — **ACADEMIC YEAR: 2023-24**
	NAME Of STUDENT: — **PRN.:**
	CLASS: Third Year B. Tech. — **Time :**
	DAY & DATE: Friday - 19/4/24 — **Marks: 20**
	SUBJECT NAME WITH CODE: Transportation Engineering

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	The stopping sight distance does not depend on _____ a) Break reaction time b) Visibility limit c) Head light distance d) Overtaking sight distance				1
	b.	The camber required depends on _____ a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall characteristics				1
	c.	penetration test on bitumen is used for determining a) Temperature susceptibility b) Grade c) Viscosity d) Ductility				1
	d.	The function of expansion joint in rigid pavement is a) Relieve wrapping stresses b) Relieve shrinkage stresses c) Resist stresses due to expansion d) Allow free expansion				1
2.		**Solve Any Two Of The Following**				3 ×2 = 6
	a.	Write types of sight distances. in details.				3
	b.	Write note on PIEV theory.				3
	c.	Explain in detail classification of road?				3

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3		**Solve Any two of the following**					**5 ×2 = 10**
	a.	The speed of overtaking and the overtaken vehicle is 80kmph and 65 kmph respectively on two-way traffic. The acceleration of the overtaking vehicle is 3.6 kmph. Calculate. (i) Safe overtaking sight distance. (ii) Minimum and desirable overtaking zone. assume total reaction time = 2 seconds.					5
	b.	Draw the section of pavement and explain its elements					5
	c.	Write a short note on CBR Test					5

********** END **********

MSE

TRE -2023-24

ANSWER KEY

Sight distance is a critical factor in road design and traffic safety, ensuring that drivers have adequate visibility to make safe maneuvers. The main types of sight distances include:

1. Stopping Sight Distance (SSD)

Stopping Sight Distance is the minimum sight distance required for a driver to perceive an obstacle in the road, react to it, and bring the vehicle to a complete stop before reaching the obstacle.

Components of SSD:

- **Perception-Reaction Distance (PRD):** The distance traveled during the time it takes for the driver to perceive a hazard and initiate a braking response. The standard perception-reaction time is generally considered to be 2.5 seconds.
- **Braking Distance (BD):** The distance required to stop the vehicle once the brakes are applied. This distance depends on the vehicle's speed, the road's grade, and the coefficient of friction between the tires and the road surface.

SSD=V×tr+V22×g×f\text{SSD} = V \times t_r + \frac{V^2}{2 \times g \times f}SSD=V×tr +2×g×fV2

where:

- VVV = initial speed of the vehicle
- trt_rtr = perception-reaction time
- ggg = acceleration due to gravity
- fff = coefficient of friction between the road and tires

2. Passing Sight Distance (PSD)

Passing Sight Distance is the minimum distance required for a driver to safely overtake another vehicle without causing a hazard to oncoming traffic. This distance ensures that the overtaking maneuver can be completed safely with clear visibility of the road ahead.

3. Decision Sight Distance (DSD)

Decision Sight Distance is the distance required for a driver to detect an unexpected or complex situation, recognize the need for a response, select an appropriate response, and complete the maneuver safely. This distance is generally longer than the stopping sight distance because it accounts for more complex decision-making processes.

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4. Intersection Sight Distance (ISD)

Intersection Sight Distance is the distance required at intersections to ensure that drivers have a clear view of oncoming traffic from all directions, allowing them to proceed safely through the intersection.

5. Horizontal Sight Distance

Horizontal Sight Distance pertains to the visibility around curves on a horizontal plane. It ensures that drivers can see far enough ahead around curves to react to obstacles or changes in the road alignment.

6. Vertical Sight Distance

Vertical Sight Distance pertains to the visibility over the crest of hills. It ensures that drivers can see far enough over the crest to react to obstacles or changes in the road alignment on the other side.

Each type of sight distance is essential for different driving scenarios and ensures that roads are designed to allow for safe and efficient traffic flow. Proper calculation and implementation of these sight distances help in reducing accidents and improving overall road safety.

Q.2 PIEV Theory

1. Perception

Perception is the initial phase in which the driver becomes aware of a stimulus or hazard. This could be anything from a traffic signal, a pedestrian, another vehicle, or an obstacle on the road. During this phase, the driver's sensory organs, primarily sight, detect the stimulus. The time taken for perception can vary based on factors such as visibility, driver's alertness, and the complexity of the driving environment.

2. Intellection

Intellection is the cognitive process where the driver interprets and understands the perceived stimulus. It involves analyzing the situation, identifying the nature of the hazard, and comprehending the potential risks involved. This phase requires mental processing and can be influenced by the driver's experience, knowledge, and familiarity with the road conditions.

3. Emotion

Emotion refers to the driver's emotional response to the perceived and understood stimulus. This phase involves the driver's psychological state, which can influence the decision-making process. Emotions such as fear, panic, stress, or even overconfidence can affect how quickly and effectively the driver reacts. A calm and experienced driver might handle the situation better than a novice or anxious driver.

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4. Volition

Volition is the decision-making and action phase where the driver decides on and executes a response to the hazard. This could involve braking, steering, accelerating, or other maneuvers to avoid a collision or navigate safely. The effectiveness of this response depends on the driver's physical abilities, reaction time, and the mechanical condition of the vehicle.

Factors Influencing PIEV

- **Driver's Age and Experience:** Younger or less experienced drivers might have slower perception and intellection phases compared to seasoned drivers.
- **Environmental Conditions:** Poor visibility due to fog, rain, or nighttime driving can affect the perception phase.
- **Vehicle Condition:** The mechanical condition of the vehicle, such as brake responsiveness and tire quality, influences the volition phase.
- **Distractions:** In-car distractions (e.g., mobile phones, passengers) can significantly delay the perception and intellection phases.

3. Classification Based on Function

a. Arterial Roads

- **Primary Arterial (Major Arterial):** These roads provide high-capacity urban and regional travel routes, connecting major cities, towns, and regions. They have limited access points and prioritize through traffic.
- **Secondary Arterial (Minor Arterial):** These roads provide service for moderate-length trips, connecting primary arterials with smaller urban centers and neighborhoods.

b. Collector Roads

- **Major Collector:** These roads gather traffic from local roads and funnel it to arterial roads. They serve intra-city travel and provide access to residential, commercial, and industrial areas.
- **Minor Collector:** These roads collect traffic from local streets and connect it to major collectors and arterial roads.

c. Local Roads

- **Urban Local Roads:** These roads provide direct access to residential, commercial, and industrial properties. They have low traffic volumes and speeds.
- **Rural Local Roads:** These roads serve rural areas, connecting individual properties and small communities to collector and arterial roads.

2. Classification Based on Design Standards

Design-based classification considers the road's construction and geometric features.

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area		1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area		1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area		1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping		1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level		1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building		1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity		1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect		1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		1	1	
10	Residential building includes c) Bungalows b) Apartments d) Row Housings d) All of above		1	1	

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area	D	1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area	B	1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area	C	1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping	D	1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level	C	1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building	D	1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity	C	1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect	D	1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	1	1	
10	Residential building excludes a) Bungalows b) Apartments b) Row Housings d) All of above	D	1	1	

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DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time – 10.40 am-11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular		2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level		2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame		2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing		2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above		2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level		3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)		3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight		3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight		3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m		3		1

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Model Answer Sheet

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DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time –10.40 am- 11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular	A	2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level	B	2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame	B	2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing	B	2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above	D	2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level	B	3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)	D	3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight	C	3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight	A	3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m	A	3		1

END

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: III	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: S.Y.	**Time : 2.00pm-3.00pm**
DAY & DATE: FRIDAY 27/10/2023	**Marks: 20**
SUBJECT NAME WITH CODE: HYDRAULICS I	**BTCVC 304**

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	For an incompressible fluid does density vary with temperature and pressure? a) It varies for all temperature and pressure range b) It remains constant c) It varies only for lower values of temperature and pressure d) It varies only for higher values of temperature and pressure			BL1	1
	b.	The pressure at any given point of a non-moving fluid is called the _____ a) Gauge Pressure b) Atmospheric Pressure c) Differential Pressure d) Hydrostatic Pressure			BL2	1
	c.	Calculate the specific weight and weight of 20 m^3 of petrol of specific gravity 0.6. a) 5886,117.2 b) 5886,234.2 c) 11772,117.2 d) None of the mentioned			BL3	1
	d.	Whose pressure can be determined by the bourdon tube pressure gauge? a) Solids b) Fluids c) Only Gas d) Only liquids			BL4	1

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Class : _____

2.		**Solve Any Two Of The Following**				$3 \times 2 = 6$
	a.	Give classification of Fluid flows.			BL3	3
	b.	What are the types of fluids?			BL4	3
	c.	State and explain Pascal's law			BL5	3
3		**Solve Any two of the following**				$5 \times 2 = 10$
	a.	Derive Bernoulli's equation from Euler's equation .			BL5	5
	b.	Derive 3D Continuity equation			BL5	5
	c.	Calculate the capillary rise in a glass tube of 205 mm dia. when immersed vertically in a)water b) mercury take surface tension $\sigma = 0.0725$ N/M for water and $\sigma = 0.52$ N/M for mercury sp.gr. for mercury is 13.6 and angle of contact is 130_{o}•			BL6	5

********** END **********

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Name of the Student : _____

Class : _____ Roll No. : _____

Subject : _____ Date : _____

Language of Answer _____

Question No.	1	2	3	4	5	6	7	8	9	10	Total	out of	Examiner's Sign.
Marks obtainted													

Main Answersheet + No. of Supplement = Total
01 + =

Supervisor's Signature

HYD - I. MSE

Answer key.

Q. 1] a] → d]

b] → a] True.

c] → a].

d] → b]

Q. 2] a] Classification of manometers

→ (1) Simple manometers.

(2) U Tube -

Differential Column Inverted. } 3 M.

b] Types of fluid.

→ Dia → 1 Mark

Real fluid

Ideal fluid

Ideal plastic

Newtonian fluid

Non newtonian fluid } 4 M.

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c] Pascal's law:-

Dia → 1 Mark.
Statement → 1 M.
Derivation → 2 M.

Q.B] Any two

a]. Dr Curved surface

Dia → 2 Mark.
Derivation - 3 M.

b] 3D Continuity eq?

→ Dia → 4 M.
→ Derivation 4 M.

$$\therefore \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0,$$

c] Capillary Rise - $\frac{4\sigma\cos\theta}{\rho g d}$

=

Capillary fall - $\frac{4\sigma\cos\theta}{\rho g d}$

=

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: Final Year B. Tech.	**Time : 10.00am -11.00am**
DAY & DATE:	**Marks: 20**
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				**4×1 =4**
	a.	According to IS 456:2000 what is minimum eccentricity of the load applied to column A. 40 B. 20 C. 10 D 30	02			1
	b.	According to IS 456:2000 minimum number of longitudinal bar provided to circular column is A. 6 B. 8 C 10 D 4	02			1
	c.	According to IS 456:2000 minimum percentage of steel provided to column is A. 0.6 B. 0.8 C 1.0 D 0.4	02			1
	d.	A short RCC column is designed maximum permissible compressive stress in concrete A. 0.4 fck B. 0.44 fck C 0.67 fck D 1 fck	02			1
2.		**Solve Any Two Of The Following**				**3 ×2 = 6**
	a.	Explain the torsion acting on beam.	01			3
	b.	Explain longitudinal and transverse reinforcement for column.	02			3
	c.	What are the advantages of Prestress concrete structure	02			3
3		**Solve Any two of the following**				**5 ×2 = 10**
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.	03			5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter	02			5

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Answer Key

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	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	ACADEMIC YEAR: 2023-24
NAME Of STUDENT:	PRN.:
CLASS: Final Year B. Tech.	Time :
DAY & DATE: 12/10/2023	Marks: 20
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator and IS code are allowed

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following				4×1 =4
	a.					1
	b.	MCQ.				1
	c.	MCQ.				1
	d.	MCQ.				1
2.		Solve Any Two Of The Following				3 ×2 = 6
	a.	Explain the torsion acting on beam.				3
	b.	Explain longitudinal and transverse reinforcement for column.				3
	c.	What are the advantages of Prestress concrete structure				3
3		Solve Any two of the following				5 ×2 = 10
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.				5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter are used as main steel. Use M20 concrete & Fe 415 steel.				5
	c.	A rectangular beam 300 mm wide & 500 mm effective depth. Beam carries factored BM 175 KN, factored Shear force 25 KN& torsional moment 10 KNm. Calculate equivalent bending moment.				5

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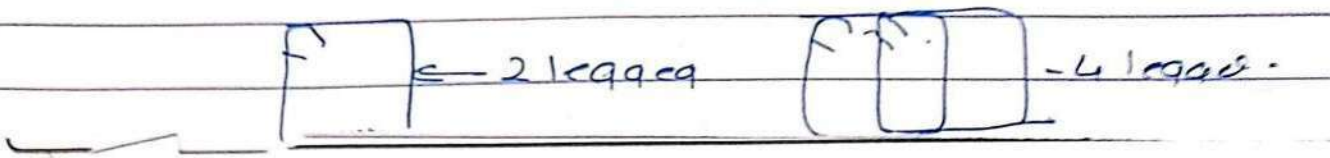
provided to support longitudinal steel. It also confines the concrete. It is in the forms of links. They may be 2 legged or 4 legged.



MID term from. (Answer key).
Design of Reinf & Prestressed concrete stru.

Q. 1.

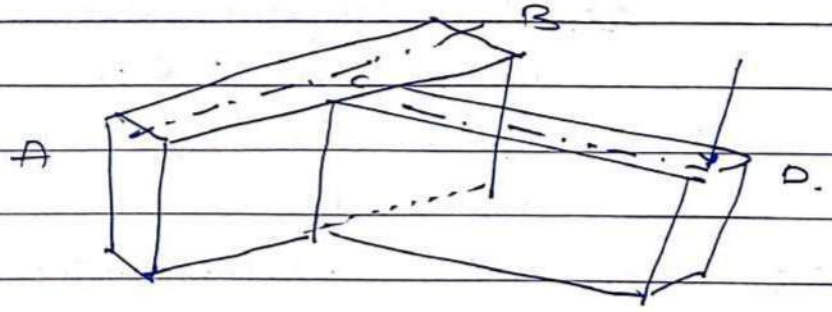
a.

b.

c.

d.

Q. 2) Explain torsion acting on beam.



When AB subjected to bending due to out of plane moment i.e. moment due to force on beam CD, Beam AB twisted about its longitudinal axis. this is called torsion, moment and force.

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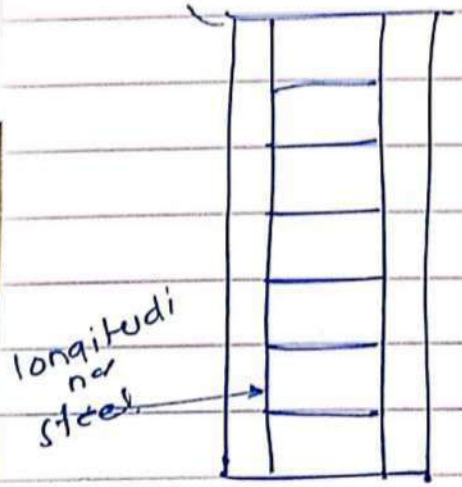
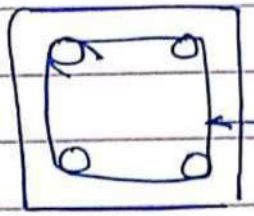
actig on beam is increased.

(b) Longitudinal & Transverse Reinf



Longitudinal steel is vertical steel present in column. This steel provided to take axial load on column. Min bar dia. of longitudinal steel is 12 mm. Min 0.8%. & max 6% steel is provided as a longitudinal steel.



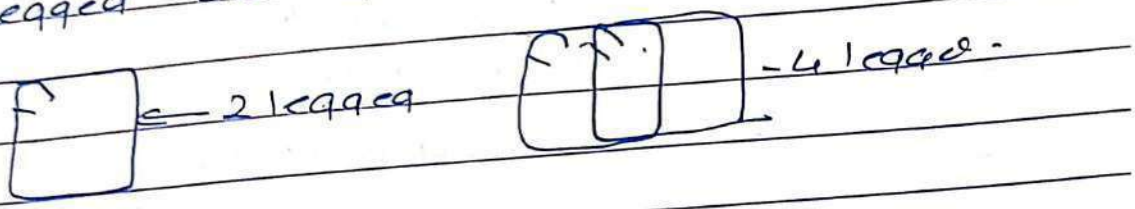
$\therefore P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$.

A_{st} in above eqn gives longitudinal steel.

Transverse steel

It is max steel

provided to support longitudinal strel. It also confines the concrete. It is in the forms of links. that may be 2 legged or 4 legged.



(c) Advantage of prestress concrete

(1) It can be provided for longer span without intermittent support
(2) It uses for grade concrete, so their is less shrinkge & creep of concrete
(3) It gives small sect^n as compared to that of R.C.C.
(4) fast construction
(5) savig in material due to slender section
(6) Bulk mfg is possible.

Q. 3

(a) $b = 375$ mm. $d = 750$ mm.
$P = 1570$ KN $L = 12.5$ m.
$e = 150$ mm. $LL = 12.5$ KN/m.
$f = ?$ $DL = 7$ KN/m

$$Z = \frac{bd^2}{6} = \frac{375 \times 750^2}{6} = 35.15 \times 10^6 \text{ mm}^3$$

$M_{DD} + M_L = 12.5 + 7 = 19.5$ KN/m

$$M = \frac{wL^2}{8} = \frac{19.5 \times 12.5^2}{8} = \frac{380.85}{\text{KN.m}}$$

$f = \frac{P}{A} \mp \frac{P \cdot e}{Z} \mp \frac{M}{Z}$

$= \frac{1540 \times 10^3}{275 \times 750} \mp \frac{1540 \times 10^3 \times 150}{35.15 \times 10^6}$

$\mp \frac{380.85 \times 10^6}{35.15 \times 10^6}$

$f = 5.58 \mp 6.69 \mp 10.83$

(b) L.C.C = ?

$b = 230$ mm

$D = 450$ mm

$A_{st} = 6 \times \frac{\pi}{4} (12)^2 = 678.67\ mm^2$

$f_{ck} = 20\ N/mm^2$ $f_y = 415\ N/mm^2$

$A_{st} = 0.01\ A_g$ $A_c = 0.99\ A_g$

$P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$

$= 0.4 \times 20 \times A_c + 0.67 \times 415 \times A_{st}$

$= 0.4 \times 20 \times (230 \times 450 - 678.67)$

$+ 0.67 \times 415 \times 678.67$

$P_u = 1011.28\ kN$

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DEPARTMENT OF CIVIL ENGINEERING
C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular		1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above		1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.		1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law		1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point		1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere		1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous		1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area		1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm² D) Nmm		1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain		1	1	1

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DEPARTMENT OF CIVIL ENGINEERING

C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular	B	1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above	C	1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.	A	1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law	B	1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point	D	1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere	C	1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous	B	1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area	D	1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm² D) Nmm	C	1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain	B	1	1	1

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Civil Engineering Department

Civil Departmental Academic Calendar for A.Y. 2023-2024 (Even Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
FEBRUARY				1	2	3		2	1- Commencement of Classes
	5	6	7	8	9	10		6	5- DAB Meeting
	12	13	14	15	16	17		5	19- Chhatrapati Shivaji Maharaj Jayanti
		20	21	22	23	24		5	20- Departmntal event on Shiv Jayanti
	26	27	28	29				4	29-CA-01, 26 Mini Project Presentation For TY
MARCH					1	2		1	1-CA-01, 11- Project Phase II Presentation
	4	5	6	7		9		5	4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri
	11	12	13	14	15	16		5	12-17 Depat. Site visit/industrial Tour
	18	19	20	21	22	23		6	23- Parikrama, 18 -22 Guest Lecture
		26	27	28		30		3	25-Dhulivandan, 29-Good Friday
APRIL	1	2	3	4	5	6		5	
	8		10		12	13		4	9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti
	15	16		18	19	20	21	5	17-Shri Ram Navami, 18-20- MSE, 21-Mahavir Jayanti
	22	23	24	25	26	27	28	6	26- 11- Project Phase I Presentation
	29	30						2	22- 26 Workshop
MAY				2	3	4		2	1-Maharashtra Din
	6	7	8	9	10	11		6	9&10 -CA-02. 17- Project Phase II Presentation
	13	14	15	16	17	18	19	5	21- Field Training report Submission
	20	21	22		24	25	26	5	23-Buddha Pounima, 25- End of Classes
	27	28	29	30	31				27-31- Practical Examination
JUNE						1	2		
	3	4	5	6	7	8	9		3-14- End Semester Exam.
	10	11	12	13	14	15	16		
		18	19	20	21	22	23		17- Bakri Id (Id-Ul-Zuha)
	24	25	26	27	28	29	30		
Vt. Holiday		CA/MSE/Pract. Exam/ESE						80	29 July - Result Declaration, 01 Aug- Commencement of Classes for Next Semester
Activities		Institute Holiday							

Prepared by
Prof. A. M. Momin

Head of Dept.
Prof. J. S. Mevekari

Dean Academics
Prof. E. P. Salokhe

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Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.

Deaprtmental Academic Calendar for A.Y. 2023-2024 (Odd Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
AUGUST		1	2	3	4	5	6	0	4- Commencement meeting
	7	8	9	10	11	12	13	6	7- Reporting & Commencement of Classes
	14	15	16	17	18	19	20	3	15 - Independence Day,16 -Parsi New Year
	21	22	23	24	25	26	27	6	17- Alumni Meet, B. Tech. Project Group Formation
	28	29	30	31				4	
SEPTEMBER					1	2	3	1	2- NAAC Review Meeting
	4	5	6	7	8	9	10	6	8,9 CA-1
	11	12	13	14	15	16	17	5	15- Engineer's Day Celebration
	18	19	20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet
	25	26	27	28	29	30		4	28- Eid-e-Milad '
OCTOBER							1	0	
	2	3	4	5	6	7	8	4	02- Mahatma Gandhi Jayanti, 03-06- Mid Semester Exam.
	9	10	11	12	13	14	15	6	12- Disply of MSE Marks
	16	17	18	19	20	21	22	5	19- Seminar Presentation
	23	24	25	26	27	28	29	5	24-Dussehra
	30	31						2	30-31 -Industrial Visit
NOVEMBER			1	2	3	4	5	3	3- Project Presentation
	6	7	8	9	10	11	12	6	09,10-CA-2, 12- Laxmi Pujan
	13	14	15	16	17	18	19	4	14- Bali Pratipada
	20	21	22	23	24	25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM
	27	28	29	30				0	27- Guru Nanak Jayanti, 29- Parents Meet
DECEMBER					1	2	3	0	01-13 End Semester Examination
	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training
	11	12	13	14	15	16	17	0	12- NAAC Review Meeting
	18	19	20	21	22	23	24	0	
	25	26	27	28	29	30	31	0	25- Christmas
Govt. Holiday		CA/MSE/Pract. Exam/ESE						78	01st January 2024 Commencement of Classes for Next semester
Activities		Institute Holiday							

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each Department shall prepare their separate calendar to reflect departmental activities, Industrial Visits and Student Intrenships

HOD

Dean Academics

Principal

Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth. Panhala. Dist. Kolhapur. (416 201)

Department of Civil Engineering

2.5.1 CA I, CAII, MSE Record

DTE Code : EN6315

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AICTE ID : 1-6010451
AISHE Code : C-11165

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Date: 08/05/2024

Continuous Assessment – II Conduction Notification

All Department Examinations Coordinators are hereby informed to conduct **Continuous Assessment – II as per Academic Calendar** from **09/05/2024 to 10/05/2024** for even semester 2024. Kindly go through the **University guidelines** for conduction of CA – II evaluation. Also make sure that sufficient **syllabus completion** for conduction of same. (75-80% of syllabus completion)

Important note for students:

a. All student must Wear identity card. If not in possession, get HOD's/class advisor's letter of permission.
b. Get permission from the HOD/PRINCIPAL, if institute fee not paid.

Cc to:

1. All HOD
2. All department Examination Coordinators

Sr. No.	Details	Signature
1	HOD/Department Exam Coordinator - Electrical	
2	HOD/Department Exam Coordinator – Civil	
3	HOD/Department Exam Coordinator – Computer	
4	HOD/Department Exam Coordinator – Mechanical	
5	HOD/Department Exam Coordinator - BSH	

EXAMINATION CO-ORDINATOR
Sanjeevan Engineering & Technology Institute
Panhala, Somvar Peth, PANHALA

PRINCIPAL
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Somvar Peth, PANHALA, Dist. Kolhapur. 416201

DTE Code : ENG3315

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Pin- 416 201 (Maharashtra) Phone : 9146999500

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AICTE ID : 1-8019451
MSHE Code : C-11165

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Date 8/05/2024

Notice

All the students of SY, TY & B-tech are hereby informed that CA-II is scheduled form 10th May 2024. Syllabus for CA II is forth & fifth. Detail schedule is given below.

SR. No	Date	Time	Class	Subject	Class	Subject	Class	Subject
01	10/05/2024	9.30 am - 10 am	SY	BPD	TY	DRCS	BE	MRCS
		10.30 am - 11 am		EE		FE		RSE
		11.30 am - 12		SM-I		TRE		--
		12.30 pm - 1 pm		WRE		IWT		
		2.30 pm - 3 pm		HEII		BHR		
		3.30 pm - 4 pm		EG		IC		

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Pin- 416 201 (Maharashtra) Phone - 91 [illegible]
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-5010431
AISHE code : C-11163
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Date – 08/05/2024

NOTICE

CA-II

SY, TY, & B-Tech (SEM-IV,VI,VIII)

The CA-II for all students are scheduled on 10th May 2024. In this regard all the staff are here by informed that, they have to prepare CA-II question paper with model answer & submit up to 09/05/2024.

Prof. A. R. Tonne
Exam coordinator

Prof. J. S. Mevekari
HOD Civil

HOD
Civil Engineering
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1 JSM

2 EPS

3AMM –

4 SSC –

5 ACT –

6 ART

7 MMS

8 RAP

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Date 8/05/2024

Time Table for CA II

SR. No	Date	Time	Class	Subject	Class	Subject	Class	Subject
01	10/05/2024	9.30 am - 10 am	SY	BPD	TY	DRCS	BE	MRCS
		10.30 am - 11 am		EE		FE		RSE
		11.30 am - 12		SM-I		TRE		--
		12.30 pm - 1 pm		WRE		IWT		
		2.30 pm - 3 pm		HEII		BHR		
		3.30 pm - 4 pm		EG		IC		

Prof. A. R. Tonne

Exam coordinator

Prof. J. S. Mevekari

HOD Civil

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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

DTE Code : ENG315

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AISHE Code : C-11165
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Date 8/05/2024

Seating arrangement for CA I & Midterm exam

DATE	CLASS	A 106	A 107	A 108
10/05/2024	S.Y.	Roll no. 1-36	Roll no. 37-49	--
	T.Y.	Roll no. 1-34	--	--
	BE	--	Roll no. 1-20	Roll no. 21-60

Prof. A. R. Tonne
Exam coordinator

Prof. J. S. Mevekari
HOD Civil

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Date 8/05/2024

Supervision Chart for CA II

ACT - 02
AMM - 02
SSC - 01
RSB - 02

DATE	TIME	CLASS	A 106	A 107	A 108
10/05/2024	9.30 am - 10 am	S.Y.	AMM	MMS	--
		T.Y.	ACT	RAP	
		B.E.	--		RSB
	10.30 am - 11 am	S.Y.	SSC	AMM	--
		T.Y.	ART	ACT	
		B.E.	--		RSB
	11.30 am - 12	S.Y.	MMS	RSB	--
		T.Y.	RAP	ART	
		B.E.	MMS	RAP	
	12.30 pm - 1 pm	S.Y.	AMM	SSC	--
		T.Y.	RAP	RSB	
		B.E.	--	MMS	
	2.30 pm - 3 pm	S.Y.	MMS	ACT	--
		T.Y.	RAP	SSC	
		B.E.	ART	RSB	
	3.30 pm - 4 pm	S.Y.	AMM	MMS	--
		T.Y.	ACT	SSC	
		B.E.	SSC	RSB	

Prof. A. R. Tonne
Exam coordinator

Prof. J. S. Mevekari
HOD Civil

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Holy-wood Academy's

SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

ass – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

ite – 10 /05 /2024 Time – 09:30 am to 10:00 am

me of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

o	Question	Ans	CO	PO	Mks
	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation		4	1	
	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid		4	1	
	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation		4	1	
	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors		4	1	
	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False		3	1	
	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe		3	1	
	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene		3	1	
	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical free d) Light weight & corrosion		3	1	
	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		5	1	
	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above		5		

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 10 /05 /2024 Time – 09:30 am to 10:00 am

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation	B	4	1	
2	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid	A	4	1	
3	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation	B	4	1	
4	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors	B	4	1	
5	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False	B	3	1	
6	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe	C	3	1	
7	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene	B	3	1	
8	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical d) Light weight & corrosion free	D	3	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	5	1	
10	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above	D	5	1	

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DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-5018431
AISHE Code : C-11163

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Civil Engineering Department

SY CIVIL -2023/24

Attendance CA II

Roll No.	PRN	Name of Student	Subject					
			BPD	EE	SM-I	WRE	HE-II	EG
1	2263151191002	BHOIR DIPESH ANANTA	Dipesh	Dipesh	Dipesh	Dipesh	Dipesh	Dipesh
2	2263151191006	DINDE SAMARTH JANARDAN						
3	2263151191003	KADAM SAMARTH PRAVINKUMAR						
4	2263151191005	KARANDE PRACHI SANJAY						
5	2263151191007	PATIL MAYUR DEEPAK						
6	2263151191001	PATIL SAHIL ARUN						
7	2263151191008	PATIL VYANKATESH MANOHAR						
8	2263151191004	RUPNOOR SATEJ PRAVIN						
9	23063151191529	DHUMALE SURAJ BHIKAJI						
10	23063151191538	SABALE ABHISHEK BAPU						
11	23063151191527	KAMBLE GAUTAM BALASAHEB						
12	23063151191532	PALANGE SANIKA RAMESH						
13	23063151191502	POWAR SAMRAT ASHOK						
14	23063151191508	KAMBLE TUSHAR DAGADU	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
15	23063151191517	DESAI DINESH BHAUSO						

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16	23063151191516	PATIL SIDDHARTH SANJAY						
17	23063151191507	KHOT SHANTANU SANDIP						
18	23063151191505	PATIL SUSHANT ABASAHEB						
19	23063151191518	KUMBHAR RUSHIKESH CHANDRAKANT						
20	23063151191515	PATIL YUGANDHRA SHRIKANT						
21	23063151191503	HIRUGADE ONKAR TANAJI						
22	23063151191536	KAMBLE RAKESH VINOD						
23	23063151191530	PATIL AJAY DILIP						
24	23063151191510	BHOGULKAR VAIBHAV GUNDUPANT						
25	23063151191525	PATIL SAURABH KRISHNAT						
26	23063151191509	PRATHMESH RAVINDRA MANGORE						
27	23063151191511	GAD VINAYAK VIJAY						
28	23063151191512	GAWADE YASH SURESH						
29	23063151191522	BAGANE TEJAS NAYAKU						
30	23063151191528	KADAM SANKET ARUN						
31	23063151191526	VIJAY GULSHAN SHINDE						

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32	23063151191520	KAMATE SHRIDHAR BABASAHEB						
33	23063151191537	LALE TEJAS BABURAO						
34	23063151191535	DIGAMBAR BALASO KOLI						
35	23063151191533	PRATIK RAJARAM SHINDE						
36	23063151191531	TARALEKAR VIKAS RAMCHANDRA						
37	23063151191514	PATIL VIRENDRA BHIMRAO						
38	23063151191521	THORAVAT KUMBHAR OMKAR RAJARAM						
39	23063151191524	KAMBLE SHUBHAM BAJIRAO						
40	23063151191540	DANGE ANKIT MADHUKAR						
41	23063151191523	NANDAVDEKAR PRASAD GOPAL						
42	23063151191542	RITESH NAGESH NETKE						
43	23063151191541	VIVEK VYANKTESH GAIKWAD						
44	23063151191501	LOKHANDE ASHISH ANANDA						
45	23063151191506	ADULKAR SHANTANU SANTOSH						
46	23063151191557	PATIL AMAR SHANTARAM						
47	23063151191504	JADHAV SIDDHANT RAVINDRA						
48	23063151191534	SUTAR SANDEEP SADASHIV						
49	2263151191509	SATHE BHARAT DINKAR						

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DTE Code : EN6311 5

SANJEEVAN
ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Civil Engineering Department

TY CIVIL -2023/24

Attendance CA II

Roll No.	PRN	Name of Student	10-05-24				
			DRCS	FE	TRE	IWT	EAR
1	2163151191001	GANDITKAR SANDHYA APPARAO					
2	2163151191002	GAIKWAD PRUTHVIRAJ PRATAP					
3	2163151191006	RATHOD KIRAN VASANT					
4	2163151191007	KAMBLE PREM SHRIKANT					
5	2163151191009	PATIL RUTURAJ KRISHNA					
6	2163151191010	MORE YASHRAJ VILAS					
7	2163151191011	CHOUGALE DIGVIJAY DADU					
8	2263151191501	PATIL SUYOG TANAJI					
9	2263151191502	KADAM SOHAM SHIVPRASAD					
10	2263151191503	SUTAR OMKAR SHANTARAM					
11	2263151191504	WAGARE PRATIK YUVARAJ					
12	2263151191505	PATIL HARSHVARDHAN CHANDRAKANT					
13	2263151191506	KORKE SHUBHAM SANJAY					
14	2263151191507	HALADE SOURAV SACHIN					
15	2263151191508	AVADHOOT RAVINDRA KHADE					
16	2263151191509	SATHE BHARAT DINKAR					
17	2263151191510	PATIL PRIYANKA SHRIKANT					
18	2263151191511	MARADE ANIKET DILIP					
19	2263151191512	CHAVAN PARESH SAMBHAJI					
20	2263151191513	RAORANE ROHAN PANDHARI					
21	2263151191514	PATIL DHAIRYASHIL SNEHADIP					
22	2263151191515	PATIL ASHUTOSH YASHWANT					

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23	2263151191516	KAPIL SANJAY MAHADIK					
24	2263151191517	BELVALKAR TEJAS VIJAY					
25	2263151191518	SHINDE ANIRUDHA KUMAR					
26	2263151191519	JADHAV KARAN VIKRAMSINH					
27	2263151191521	PATIL PRAUTHVIRAJ BAJIRAO					
28	2263151191522	POWAR SAKSHI DINKAR					
29	2263151191523	BHONGALE AVDHUT VINOD					
30	2263151191524	KAMBLE SHUBHAM KRISHNAT					
31	2263151191525	PADAWALE SAURABH DEEPAKRAO					
32	2263151191526	GHADAGE TUSHAR VILAS					
33	2263151191527	PATIL ATUL BHAGAVAN					
34	2263151191528	DASHVANT GORAKSHNATH RAJARAM					
35	2263151191530	LOHAR GANESH SANTOSH					
36	2263151191531	PATIL SAIPRASAD JANARDAN					
37	2263151191532	KAMBLE TEJAS DHANAJI					
38	2263151191533	MAITREAY BHASKAR KAMBLE					
39	2263151191534	PATIL RITESH KRUSHNAT					
40	2263151191535	PATIL VISHAL VIJAY					
41	2263151191536	RAORANE SAMRUDDHI SUNIL					
42	2263151191538	CHOUGALE HARSHWARDHAN BAJIRAO					
43	2263151191539	KAMBLE ATUL UTAM					
44	2263151191540	KEMBLE RAVIKANT RAGHUNATH					

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Civil Engineering Department

B. Tech CIVIL -2023/24

Attendance CA II

Roll No.	PRN	Name of Student	10-May-2024	
			MRCS	RSE
1	T2063151191001	ASHWIN ARUN SAWANT		
2	T2063151191002	DADASAHEB NAVNEET DHANGAR		
3	T2063151191003	HARSHAVARADHN JAGANNATH PATIL		
4	T2063151191004	JAYESH RAJARAM SOLANKURKAR		
5	T2063151191005	SAHIL SURAJ DANGE		
6	T2063151191006	SHABDALI SHIVAJI CHOUGULE		
7	T2063151191007	SHIVAM VINOD JADHAV		
8	T2063151191008	SHIVAM ARUN CHAVAN		
9	T2063151191009	SUMIT SURESH PATIL		
10	T2063151191010	SUPRIYA SUBHASH FUTANE		
11	T2063151191011	NIKAM VIVEK VISHWAS		
12	T2063151191012	NIKHIL NILESH MISAL		
13	T2163151191501	MANE AADITYA BAJIRAO		
14	T2163151191502	DESAI JANARDAN DATTATRAY		
15	T2163151191503	PATIL VINAYAK VILAS		
16	T2163151191504	PATIL ROHIT DINKAR		
17	T2163151191505	IMPAL DHANRAJ JANARDAN		
18	T2163151191506	SHINDE SANKET SURYAKANT		
19	T2163151191507	CHOUGALE SHUBHAM BABASO		
20	T2163151191508	JAMDADE AMIT UTTAM		
21	T2163151191509	DESHMUKH RUSHIKESH ANANDA		
22	T2163151191510	PATIL SUSHANT MOHAN		
23	T2163151191511	KUIGADE SHIVAM SANJAY		
24	T2163151191512	KARANDE VIJAY UMRAO		
25	T2163151191513	SHINDE MANDAR VILAS		
26	T2163151191514	KAMBLE RUSHIKESH SURESH		
27	T2163151191515	PATIL SARTHAK SANGRAM		
28	T2163151191516	KATKAR SOHAM SANJAY		
29	T2163151191517	LOKARE PRATIK SADASHIV		
30	T2163151191518	DESHMUKH PRASHANT SARJERAO		
31	T2163151191519	BOKKA SURYA PRAKASH SRINIVASRAO		
32	T2163151191521	PATIL RAJWARDHAN SUBHASH		
33	T2163151191522	DESHMUKH RAHUL PRAKASH		
34	T2163151191524	KAMBLE SAURABH SANJAY		

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35	T2163151191525	NARKE PIYUSH JAYAVANT		
36	T2163151191526	GURAV PRANAV PRAKASH		
37	T2163151191527	BALAP ROHIT SANJAY		
38	T2163151191528	PATIL TUSHAR SHIVAJI		
39	T2163151191530	KURANE MOHIT DEEPAK		
40	T2163151191531	PATIL AADITYA BALASO		
41	T2163151191532	PATIL PRUTHVIRAJ BABASAHEB		
42	T2163151191533	NIRUKHE SHIVRAJ SARJERAO		
43	T2163151191534	DEVANE SHIVAM NANDKUMAR		
44	T2163151191535	GORE GANESH SHRIMANT		
45	T2163151191536	PAWAR ASHISH GORAKSHA		
46	T2163151191537	KHIRUGADE SUMEET SUNIL		
47	T2163151191538	GADGIL RANVEER UTTAM		
48	T2163151191539	PATIL AKASH BABAN		
49	T2163151191541	LOKHANDE MADHAV SUNIL		
50	T2163151191542	JUGALE ABHISHEK CHANDRASHEKHAR		
51	T2163151191543	JOUNDAL RUSHIKESH BABASO		
52	T2163151191545	GAIKWAD RUTIK SUNIL		
53	T2163151191546	PATIL ADITYA DEEPAK		
54	T2163151191547	MAHADIK SWAROOP SUBHASH		
55	T2163151191548	GAIKWAD KEDAR SURYAKANT		
56	T2163151191549	GAIKWAD SIDHARTH VIVEKAND		
57	T2163151191550	KAMBLE AJIT BHIKAJI		
58	T2163151191552	OTARI YASH MANOJ		
59	T2163151191553	DESAI YOGESH ASHOK		
60	T2163151191554	PATIL AJINKYA NANDKUMAR		
61	T2163151191555	PATIL ROUNAK CHANDRASHEKHAR		
62	T2163151191556	PATIL YOGESH YUVRAJ		
63	T2163151191558	SONAWALE OMKAR TANAJI		
64	2063151191029	RAJVARDHAN PARSHURAM POWAR		
65	2063151191068	DAREKAR ATUL SARJERAO		

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DTE Code : ENG315

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AICTE ID : 1-8019451
AISHE Code : C-11165

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Mid Semester Examination Notice

Date 12/04/2024

All **B. Tech students** are informed that **Mid Semester Examination is scheduled from date 18 April to 20 April 2024.** The examination will be conducted through offline mode in institute. All must take a note.

The detailed schedule of examination will be shared soon. Students are directed to ensure their **presence fifteen minutes before** the commencement of the examination in the examination hall/room, failing to which they shall not be allowed to appear in the examination. No hearing shall take place in this matter if the student is disallowed for non compliance.

Examinations	Semester	Scheduled Examinations
Mid Semester Examination Summer 2024.	II, IV, VI & VIII	18 April to 20 April 2024

Important Instructions

1. Bring your Student ID. You will not be allowed into the exam hall without Student ID.
2. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
3. Make sure that No Institution dues/ Fees are pending before appearing examination.

Sr. No.	Details	Signature
1	HOD – Electrical Engg.	
2	HOD – Civil Engg.	
3	HOD – Computer Engg.	
4	HOD – Mechanical Engg.	
5	HOD - BSH	

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE EXAM SECTION PANHALA

Copy fwd. to:

1. All Heads of the departments, S.E.T.I. Panhala
2. All Department Exam coordinators, S.E.T.I. Panhala
3. Student notice board

Academic Dean

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NOTICE

MSE

SY, TY, & B-Tech (SEM-IV,VI,VIII)

The MSE for all students are scheduled on 18th April 2024. In this regard all the staff are here by informed that, they have to prepare MSE question paper & submit up to 16/04/2024.

Prof. A. R. Tonne
Exam coordinator

Prof. J. S. Mevekari
HOD Civil

HOD
Civil Engineering
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1 JSM

2 EPS –

3AMM –

4 SSC –

5 ACT –

6 ART

7 MMS

8 RAP –

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ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Mid Semester Examination Notice

Date 12/04/2024

All B. Tech students are informed that **Mid Semester Examination is scheduled from date 18 April to 20 April 2024.** The examination will be conducted through offline mode in institute. All must take a note.

The detailed schedule of examination will be shared soon. Students are directed to ensure their presence **fifteen minutes before** the commencement of the examination in the examination hall/room, failing to which they shall not be allowed to appear in the examination. No hearing shall take place in this matter if the student is disallowed for non compliance.

Examinations	Semester	Scheduled Examinations
Mid Semester Examination Summer 2024.	II, IV, VI & VIII	18 April to 20 April 2024

Important Instructions

1. Bring your Student ID. You will not be allowed into the exam hall without Student ID.
2. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
3. Make sure that No Institution dues/ Fees are pending before appearing examination.

Sr. No.	Details	Signature
1	HOD – Electrical Engg.	
2	HOD – Civil Engg.	
3	HOD – Computer Engg.	
4	HOD – Mechanical Engg.	
5	HOD - BSH	

Copy fwd. to:

1. All Heads of the departments, S.E.T.I. Panhala
2. All Department Exam coordinators, S.E.T.I. Panhala
3. Student notice board

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE EXAM SECTION PANHALA

EXAMINATION CO-ORDINATOR
Sanjeevan Engineering and Technology Institute, Somwar Peth, Panhala-416201

Academic Dean

12/4/24
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vivo Y72 5G
Apr 12, 2024, 16:34

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

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MID TERM EXAMINATION - Summer 2024 TIME TABLE

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday, 18/04/2024	9:30 am To 10:30am	Computer Sci. & Engg	SY	BTCOC401	Design and Analysis of Algorithm
			TY	BTCOC601	Compiler design
		Civil Engg	SY	BTCVC401	Building Planning and Drawing
			TY	BTCVC601	Design of RC Structures
			B.Tech	BTCVSS801D	Maintenance and Repair Of Concrete Structures
		Electrical Engg.	SY	BTEEC401	Network Theory
			TY	BTEEC601	Switchgear and Protection
		Mechanical Engg.	SY	BTMC401	Manufacturing process - I
			TY	BTMC601	Manufacturing process - II
			B.Tech	BTMEC801A	Fundamentals of Automotive systems
	12:30 pm To 01:30 pm	Computer Sci. & Engg	SY	BTCOC402	Operating System
			TY	BTCOC602	Computer Networks
		Civil Engg	SY	BTCVC402	Environmental Engineering
			TY	BTCVC602	Foundation Engineering
		Electrical Engg.	SY	BTEEC402	Power System
			TY	BTEEC602	Electrical Machine Design
		Mechanical Engg.	SY	BTMC402	Theory of amchines - I
			TY	BTMC602	Machine desgin - II
	3:30 pm to 4:30 pm	Computer Sci. & Engg	SY	BTHM403	Basic Human Rights
			TY	BTCOC603	Machine learning
		Civil Engg	SY	BTCVC403	Structural Mechanics - I
			TY	BTCVES603	Artificial Intelligence (NPTEL/SWAYAM)
			B.Tech	BTCVSS802C	Remote Sensing Essentials
		Electrical Engg.	SY	BTEEC403	Electrical Machine-II
			TY	BTEEC603	Control System Engineering
		Mechanical Engg.	SY	BTHM403	Basic Human Rights
			TY	BTMPE603D	Elective - III (Engineering Metrology & quaility control
			B.Tech	BTMEC801F	Non conventional energy resources
Friday, 19/04/2024	9:30 am To 10:30am	Computer Sci. & Engg	SY	BTBSC404	Probability and statistics
			TY	BTCOE604	Elective - IV
		Civil Engg	SY	BTCVC404	Water Resources Engineering
			TY	BTCVC604	Transportation Engineering
		Electrical Engg.	SY	BTBS404	Analog and Digital Electronics
			TY	BTEEPE604	Group D - Smart Grid Technology
		Mechanical Engg.	SY	BTMES404	Strength of Materials
			TY	BTMPE604D	Elective - IV (Robotics)
	12:30 pm To 01:30 pm	Computer Sci. & Engg	SY	BTES405	Digital logic design & Microprocessors
			TY	BTHM605	Elective - V
		Civil Engg	SY	BTCVC405	Hydraulics - II
			TY	BTCVPE605	Industrial Waste Treatment
		Electrical Engg.	SY	BTEEPE405	Group A - Advance Renewable Energy Sources
			TY	BTEEOE605	Group E - Power Plant Engineering
		Mechanical Engg.	SY	BTMPE405A - C	Elective - I
			TY	BTMOE 605C	Open elective - II (Energy Conservation and
	3:30 pm to 4:30	Civil Engg	SY	BTCVC406	Engineering Geology
			TY	BTCVOE606	Basic Human Rights

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE ★ EXAM SECTION PANHALA

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
	SEMESTER: IV — **ACADEMIC YEAR: 2023-24**
	NAME Of STUDENT: — **PRN.:**
	CLASS: Third Year B. Tech. — **Time :**
	DAY & DATE: Friday - 19/4/24 — **Marks: 20**
	SUBJECT NAME WITH CODE: Transportation Engineering

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	The stopping sight distance does not depend on _____ a) Break reaction time b) Visibility limit c) Head light distance d) Overtaking sight distance				1
	b.	The camber required depends on _____ a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall characteristics				1
	c.	penetration test on bitumen is used for determining a) Temperature susceptibility b) Grade c) Viscosity d) Ductility				1
	d.	The function of expansion joint in rigid pavement is a) Relieve wrapping stresses b) Relieve shrinkage stresses c) Resist stresses due to expansion d) Allow free expansion				1
2.		**Solve Any Two Of The Following**				3 ×2 = 6
	a.	Write types of sight distances. in details.				3
	b.	Write note on PIEV theory.				3
	c.	Explain in detail classification of road?				3

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3		**Solve Any two of the following**				**5 ×2 = 10**
	a.	The speed of overtaking and the overtaken vehicle is 80kmph and 65 kmph respectively on two-way traffic. The acceleration of the overtaking vehicle is 3.6 kmph. Calculate. (i) Safe overtaking sight distance. (ii) Minimum and desirable overtaking zone. assume total reaction time = 2 seconds.				5
	b.	Draw the section of pavement and explain its elements				5
	c.	Write a short note on CBR Test				5

********** END **********

MSE

TRE -2023-24

ANSWER KEY

Sight distance is a critical factor in road design and traffic safety, ensuring that drivers have adequate visibility to make safe maneuvers. The main types of sight distances include:

1. Stopping Sight Distance (SSD)

Stopping Sight Distance is the minimum sight distance required for a driver to perceive an obstacle in the road, react to it, and bring the vehicle to a complete stop before reaching the obstacle.

Components of SSD:

- **Perception-Reaction Distance (PRD):** The distance traveled during the time it takes for the driver to perceive a hazard and initiate a braking response. The standard perception-reaction time is generally considered to be 2.5 seconds.
- **Braking Distance (BD):** The distance required to stop the vehicle once the brakes are applied. This distance depends on the vehicle's speed, the road's grade, and the coefficient of friction between the tires and the road surface.

SSD=V×tr+V22×g×f\text{SSD} = V \times t_r + \frac{V^2}{2 \times g \times f}SSD=V×tr +2×g×fV2

where:

- VVV = initial speed of the vehicle
- trt_rtr = perception-reaction time
- ggg = acceleration due to gravity
- fff = coefficient of friction between the road and tires

2. Passing Sight Distance (PSD)

Passing Sight Distance is the minimum distance required for a driver to safely overtake another vehicle without causing a hazard to oncoming traffic. This distance ensures that the overtaking maneuver can be completed safely with clear visibility of the road ahead.

3. Decision Sight Distance (DSD)

Decision Sight Distance is the distance required for a driver to detect an unexpected or complex situation, recognize the need for a response, select an appropriate response, and complete the maneuver safely. This distance is generally longer than the stopping sight distance because it accounts for more complex decision-making processes.

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4. Intersection Sight Distance (ISD)

Intersection Sight Distance is the distance required at intersections to ensure that drivers have a clear view of oncoming traffic from all directions, allowing them to proceed safely through the intersection.

5. Horizontal Sight Distance

Horizontal Sight Distance pertains to the visibility around curves on a horizontal plane. It ensures that drivers can see far enough ahead around curves to react to obstacles or changes in the road alignment.

6. Vertical Sight Distance

Vertical Sight Distance pertains to the visibility over the crest of hills. It ensures that drivers can see far enough over the crest to react to obstacles or changes in the road alignment on the other side.

Each type of sight distance is essential for different driving scenarios and ensures that roads are designed to allow for safe and efficient traffic flow. Proper calculation and implementation of these sight distances help in reducing accidents and improving overall road safety.

Q.2 PIEV Theory

1. Perception

Perception is the initial phase in which the driver becomes aware of a stimulus or hazard. This could be anything from a traffic signal, a pedestrian, another vehicle, or an obstacle on the road. During this phase, the driver's sensory organs, primarily sight, detect the stimulus. The time taken for perception can vary based on factors such as visibility, driver's alertness, and the complexity of the driving environment.

2. Intellection

Intellection is the cognitive process where the driver interprets and understands the perceived stimulus. It involves analyzing the situation, identifying the nature of the hazard, and comprehending the potential risks involved. This phase requires mental processing and can be influenced by the driver's experience, knowledge, and familiarity with the road conditions.

3. Emotion

Emotion refers to the driver's emotional response to the perceived and understood stimulus. This phase involves the driver's psychological state, which can influence the decision-making process. Emotions such as fear, panic, stress, or even overconfidence can affect how quickly and effectively the driver reacts. A calm and experienced driver might handle the situation better than a novice or anxious driver.

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4. Volition

Volition is the decision-making and action phase where the driver decides on and executes a response to the hazard. This could involve braking, steering, accelerating, or other maneuvers to avoid a collision or navigate safely. The effectiveness of this response depends on the driver's physical abilities, reaction time, and the mechanical condition of the vehicle.

Factors Influencing PIEV

- **Driver's Age and Experience:** Younger or less experienced drivers might have slower perception and intellection phases compared to seasoned drivers.
- **Environmental Conditions:** Poor visibility due to fog, rain, or nighttime driving can affect the perception phase.
- **Vehicle Condition:** The mechanical condition of the vehicle, such as brake responsiveness and tire quality, influences the volition phase.
- **Distractions:** In-car distractions (e.g., mobile phones, passengers) can significantly delay the perception and intellection phases.

3. Classification Based on Function

a. Arterial Roads

- **Primary Arterial (Major Arterial):** These roads provide high-capacity urban and regional travel routes, connecting major cities, towns, and regions. They have limited access points and prioritize through traffic.
- **Secondary Arterial (Minor Arterial):** These roads provide service for moderate-length trips, connecting primary arterials with smaller urban centers and neighborhoods.

b. Collector Roads

- **Major Collector:** These roads gather traffic from local roads and funnel it to arterial roads. They serve intra-city travel and provide access to residential, commercial, and industrial areas.
- **Minor Collector:** These roads collect traffic from local streets and connect it to major collectors and arterial roads.

c. Local Roads

- **Urban Local Roads:** These roads provide direct access to residential, commercial, and industrial properties. They have low traffic volumes and speeds.
- **Rural Local Roads:** These roads serve rural areas, connecting individual properties and small communities to collector and arterial roads.

2. Classification Based on Design Standards

Design-based classification considers the road's construction and geometric features.

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AISHE Code : C-41165

SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Date: 22/02/2024

Continuous Assessment – I Conduction Notification

All Department Examinations Coordinators are hereby informed to conduct **Continuous Assessment – I as per Academic Calendar** from **28/02/2024 to 01/03/2024** for even semester 2024. Kindly go through the **University guidelines** for conduction of CA – I evaluation. Also make sure that sufficient **syllabus completion** for conduction of same. (20-25% of syllabus completion)

Important note for students:

a. All student must Wear identity card. If not in possession, get HOD's/class advisor's letter of permission.
b. Get permission from the HOD/PRINCIPAL, if institute fee not paid.

Cc to:

1. All HOD
2. All department Examination Coordinators

Sr. No.	Details	Signature
1	HOD/Department Exam Coordinator - Electrical	
2	HOD/Department Exam Coordinator – Civil	
3	HOD/Department Exam Coordinator – Computer	
4	HOD/Department Exam Coordinator – Mechanical	
5	HOD/Department Exam Coordinator - BSH	

Dean Academic

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NOTICE

CA -I

S.Y, T.Y, B.Tech. (SEM-IV, VI, VIII)

Date –23/02/24

The **CA-I** test for all students are scheduled on **28rd Feb 2024**. In this regard all the staff here by informed that, they have to prepare **CA-I** question paper & submit up to 26/02/2024

Prof. A. R. Tonne

Mid-Term co-ordinator

1 JSM

2 EPS

3AMM

4 SSC

5 ACT

6 RSB

7 ART

8 MMS

9 RAP

Prof. I.S. Mevekari

H.O.D. Civil

HOD
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Date 23/02/2024

Notice

All the students of SY, TY & B-tech are hereby informed that midterm test scheduled form 28th February 2024 to 1st March 2024. Syllabus for CA I is first module. Detail schedule is given below.

SR. No	Date	Time	Class	Subject	Class	Subject	Class	Subject
01	28/02/2024	2.00 pm - 2.30 pm	SY	BPD	TY	DRCS	BE	--
		3.00 pm - 3.30 pm		EE		FE		
		3.40 pm - 4.10 pm		SM-I		--		
02	29/02/2024	2.00 pm - 2.30 pm		WRE		TRE		
		3.00 pm - 3.30 pm		HEII		IWT		
03	01/03/2024	10.00 am-10.30 am		EG		BHR		MRCS
		10.40 am -11.10 am		--		--		RSE

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Date 23/02/2024

Supervision Chart for CA I / Midterm test

DATE	TIME	CLASS	A 108	A 107	A 106	A 103 (DH)
28/02/2024	2.00 - 2.30	S.Y.	AMM	MMS	--	
		T.Y.	ACT	RAP		
		B.E.	--			
	3.00 - 3.30	S.Y.	SSC	AMM	--	
		T.Y.	ART	ACT		
		B.E.	--			
	3.40 - 4.10	S.Y.	MMS	RSB	--	
		T.Y.	--			
		B.E.				
29/02/2024	2.00 - 2.30	S.Y.	AMM	SSC	--	
		T.Y.	RAP	ART		
		B.E.	--			
	3.00 - 3.30	S.Y.	MMS	ACT	--	
		T.Y.	RAP	SSC		
		B.E.	--			
01/03/2024	10.00 - 10.30	S.Y.	RAP	MMS	--	
		T.Y.	ACT	SSC		
		B.E.	--		ART	RSB
	10.40 - 11.10	S.Y.	--		--	
		T.Y.	ART	AMM		
		B.E.	--		ACT	RSB

Exam - Coordinator
(Prof. A. R. Tonne)

HOD
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DTE Code : EN6315

HOLY-WOOD ACADEMY'S

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Date 23/02/2024

Seating arrangement for CA I & Midterm exam

DATE	CLASS	A 106	A 107	A 108	A 103 (DH)
28/02/2024	S.Y.	Roll no. 1-36	Roll no. 37-49	--	--
29/02/2024	T.Y.	Roll no. 1-36	Roll no. 37-44	--	--
01/03/2024	S.Y	Roll no. 1-36	Roll no. 37-49	--	--
01/03/2024	T.Y	Roll no. 1-36	Roll no. 37-44	--	--
01/03/2024	BE	--	--	Roll no. 1-36	Roll no. 37-60

Exam Coordinator

Prof. A. R. Tonne

H.O.D

HOD

Civil Engineering

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Holy-wood Academy's

SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area		1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area		1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area		1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping		1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level		1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building		1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity		1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect		1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		1	1	
10	Residential building includes c) Bungalows b) Apartments d) Row Housings d) All of above		1	1	

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area	D	1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area	B	1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area	C	1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping	D	1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level	C	1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building	D	1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity	C	1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect	D	1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	1	1	
10	Residential building excludes a) Bungalows b) Apartments b) Row Housings d) All of above	D	1	1	

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ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Civil Engineering Department

SY CIVIL -2023/24

Attendance CA I

Roll No.	PRN	Name of Student	28-02-24			29-02-24		01-03-24
			BPD	EE	SM-I	WRE	HE-II	EG
1	2263151191002	BHOIR DIPESH ANANTA	Dipesh	Dipesh	Dipesh	Dipesh	Dipesh	Dipesh
2	2263151191006	DINDE SAMARTH JANARDAN	Dinde.	Dinde.	Dinde.	Dinde.	Dinde.	Dinde.
3	2263151191003	KADAM SAMARTH PRAVINKUMAR	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
4	2263151191005	KARANDE PRACHI SANJAY	PK	PK	PK	PK	PK	PK
5	2263151191007	PATIL MAYUR DEEPAK	Patil	Patil	Patil	Patil	Patil	Patil
6	2263151191001	PATIL SAHIL ARUN	SAP	SAP	SAP	SAP	SAP	SAP
7	2263151191008	PATIL VYANKATESH MANOHAR	Patil	Patil	Patil	Patil	Patil	Patil
8	2263151191004	RUPNOOR SATEJ PRAVIN						
9	23063151191529	DHUMALE SURAJ BHIKAJI						
10	23063151191538	SABALE ABHISHEK BAPU						
11	23063151191527	KAMBLE GAUTAM BALASAHEB	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
12	23063151191532	PALANGE SANIKA RAMESH	Palange	Palange	Palange	Palange	Palange	Palange
13	23063151191502	POWAR SAMRAT ASHOK	Powar	Powar	Powar	Powar	Powar	Powar
14	23063151191508	KAMBLE TUSHAR DAGADU	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
15	23063151191517	DESAI DINESH BHAUSO						

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16	23063151191516	PATIL SIDDHARTH SANJAY						
17	23063151191507	KHOT SHANTANU SANDIP						
18	23063151191505	PATIL SUSHANT ABASAHEB						
19	23063151191518	KUMBHAR RUSHIKESH CHANDRAKANT						
20	23063151191515	PATIL YUGANDHRA SHRIKANT						
21	23063151191503	HIRUGADE ONKAR TANAJI						
22	23063151191536	KAMBLE RAKESH VINOD						
23	23063151191530	PATIL AJAY DILIP						
24	23063151191510	BHOGULKAR VAIBHAV GUNDUPANT						
25	23063151191525	PATIL SAURABH KRISHNAT						
26	23063151191509	PRATHMESH RAVINDRA MANGORE						
27	23063151191511	GAD VINAYAK VIJAY						
28	23063151191512	GAWADE YASH SURESH						
29	23063151191522	BAGANE TEJAS NAYAKU						
30	23063151191528	KADAM SANKET ARUN						
31	23063151191526	VIJAY GULSHAN SHINDE						

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32	23063151191520	KAMATE SHRIDHAR BABASAHEB									
33	23063151191537	LALE TEJAS BABURAO									
34	23063151191535	DIGAMBAR BALASO KOLI									
35	23063151191533	PRATIK RAJARAM SHINDE									
36	23063151191531	TARALEKAR VIKAS RAMCHANDRA									
37	23063151191514	PATIL VIRENDRA BHIMRAO									
38	23063151191521	THORAVAT KUMBHAR OMKAR RAJARAM									
39	23063151191524	KAMBLE SHUBHAM BAJIRAO									
40	23063151191540	DANGE ANKIT MADHUKAR									
41	23063151191523	NANDAVDEKAR PRASAD GOPAL									
42	23063151191542	RITESH NAGESH NETKE									
43	23063151191541	VIVEK VYANKTESH GAIKWAD									
44	23063151191501	LOKHANDE ASHISH ANANDA									
45	23063151191506	ADULKAR SHANTANU SANTOSH									
46	23063151191557	PATIL AMAR SHANTARAM									
47	23063151191504	JADHAV SIDDHANT RAVINDRA									
48	23063151191534	SUTAR SANDEEP SADASHIV									
49	2263151191509	SATHE BHARAT DINKAR									

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Civil Engineering Department

TY CIVIL -2023/24

Attendance CA I

No.	PRN	Name of Student	28-02-24			29-02-24		01-03-24
			DRCS	FE	FE IC	TRE	IWT	BHR
	2163151191001	GANDITKAR SANDHYA APPARAO						
	2163151191002	GAIKWAD PRUTHVIRAJ PRATAP						
	2163151191006	RATHOD KIRAN VASANT						
	~~2163151191007~~	~~KAMBLE PREM SHRIKANT~~						
	2163151191009	PATIL RUTURAJ KRISHNA						
	~~2163151191010~~	~~MORE YASHRAJ VILAS~~						
	2163151191011	CHOUGALE DIGVIJAY DADU						
	2263151191501	PATIL SUYOG TANAJI						
	2263151191502	KADAM SOHAM SHIVPRASAD						
	2263151191503	SUTAR OMKAR SHANTARAM						
	2263151191504	WAGARE PRATIK YUVARAJ						
	2263151191505	PATIL HARSHVARDHAN CHANDRAKANT						
	2263151191506	KORKE SHUBHAM SANJAY						
	2263151191507	HALADE SOURAV SACHIN						
	2263151191508	AVADHOOT RAVINDRA KHADE						
	2263151191509	SATHE BHARAT DINKAR						
	2263151191510	PATIL PRIYANKA SHRIKANT						
3	2263151191511	MARADE ANIKET DILIP						
9	~~2263151191512~~	~~CHAVAN PARESH SAMBHAJI~~						
10	2263151191513	RAORANE ROHAN PANDHARI						
21	2263151191514	PATIL DHAIRYASHIL SNEHADIP						
22	2263151191515	PATIL ASHUTOSH YASHWANT						

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FE IC

23	2263151191516	KAPIL SANJAY MAHADIK						
24	2263151191517	BELVALKAR TEJAS VIJAY						
25	2263151191518	SHINDE ANIRUDHA KUMAR						
26	2263151191519	JADHAV KARAN VIKRAMSINH						
27	2263151191521	PATIL PRAUTHVIRAJ BAJIRAO						
28	2263151191522	POWAR SAKSHI DINKAR						
29	2263151191523	BHONGALE AVDHUT VINOD						
30	2263151191524	KAMBLE SHUBHAM KRISHNAT	Left college					
31	2263151191525	PADAWALE SAURABH DEEPAKRAO						
32	2263151191526	GHADAGE TUSHAR VILAS						
33	2263151191527	PATIL ATUL BHAGAVAN						
34	2263151191528	DASHVANT GORAKSHNATH RAJARAM						
35	2263151191530	LOHAR GANESH SANTOSH						
36	2263151191531	PATIL SAIPRASAD JANARDAN						
37	2263151191532	KAMBLE TEJAS DHANAJI						
38	2263151191533	MAITREAY BHASKAR KAMBLE						
39	2263151191534	PATIL RITESH KRUSHNAT						
40	2263151191535	PATIL VISHAL VIJAY						
41	2263151191536	RAORANE SAMRUDDHI SUNIL						
42	2263151191538	CHOUGALE HARSHWARDHAN BAJIRAO						
43	2263151191539	KAMBLE ATUL UTAM						
44	2263151191540	KEMBLE RAVIKANT RAGHUNATH						

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DTE Code : ENG315
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AICTE ID : 1-8019451
AISHE Code : C-11165
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NOTICE

CA -II

S.Y.,T.Y. and B.Tech.

(SEM-III,V,VII)

Date –03/11/23

The **CA-II** test for S.Y.,T.Y. and B.Tech. Scheduled on **10th November & 24th November 2023**. In regard all the staff here by informed that , they have to submit their **CA-II** TEST question paper hard copy 2 set Exam co-ordinator on or **before 08th September 2023** till 4 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator

Prof. A. C. Thoke

Exam co-ordinator

3/11/23

Dr. M.N.Hiremath

HOD
H.O.D. Civil Engineering
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1 EPS

2 JSM

3 SSC

4 AMM

5 ART

6 RSB

7 NiK

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DTE Code : ENG315

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AICTE ID : 1-5019451
MSBTE Code : 0-11105

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All the Students are hereby informed that,CA-II is schedule on 10 November 2023 & 24 November 2023. Time Table is given as follow's

CAII EXAM TIME TABLE 2023-2024				
DATE	TIME	S.Y.	T.Y.	B.Tech
10/11/23	11:00AM To 11.30AM	MOS	DSS	DRPS
	12:00 To 12:30PM	HYD-I	GT	PP
24/11/23	10:00AM To 10.30AM	MIII	SM-II	IE
	10:40AM To 11:10AM	SUR	CT	CM
	11:20AM To 11:50AM	BCD	PM	BRE
	12:00 To 12:30PM		MTE	EQ

Dept.Exam Incharge
(Mr.Amit C.Thoke)

5/11/23

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EPS-
SSC
ART
AMM-
RSB -
Nick

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CA-I TIME TABLE 2023-2024 SUPERVISION CHART				
DATE	TIME	A106	A107	DWA102
10/11/23	11:00AM To 11.30AM	Prof.J.S.Mevekari	Prof.A.R.Tonne	Prof. Momin A.M.
	12:00 To 12:30PM	Prof.A.R.Tonne	Prof.J.S.Mevekari	Prof.R.S.Bore
24/11/23	10:00AM To 10.30AM	Prof. Momin A.M.	Prof.R.S.Bore	Prof.J.S.Mevekari
	10:40AM To 11:10AM	Prof.A.R.Tonne	Prof.S.S.Chavan	Prof. Momin A.M.
	11:20AM To 11:50AM	Prof.S.S.Chavan	Prof. Momin A.M.	Prof.R.S.Bore
	12:00 To 12:30PM	Prof.R.S.Bore	Prof.A.R.Tonne	

Dept.Exam. Incharge
(Mr.Amit C.Thoke)

3/11/23

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SSC
ART
MMM-
RSB-
NGK

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CA-II TIME TABLE 2023-2024 SEATING ARRANGEMENT				
DATE	CLASS	A106	A108	DWA102
10/11/23	S.Y.	-	-	1 To 52
	T.Y.	1 To 35	36 To 50	-
	B.Tech.	1 To 35	36 To 65	-
24/11/23	S.Y.	-	-	1 To 52
	T.Y.	1 To 35	36 To 50	-
	B.Tech.	1 To 35	36 To 65	-

Dept.Exam. Incharge
(Mr.Amit C.Thoke)

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EPS -
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Amm -
RSB -
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DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time – 10.40 am-11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular		2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level		2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame		2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing		2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above		2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level		3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)		3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight		3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight		3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m		3		1

END

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Model Answer Sheet

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DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time –10.40 am- 11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular	A	2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level	B	2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame	B	2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing	B	2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above	D	2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level	B	3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)	D	3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight	C	3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight	A	3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m	A	3		1

END

HOD

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DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-9019451
AISHE Code : C-11165

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Pin 416 201 (Maharashtra) Phone : 9146999566

Approved By AICTE, New Delhi. Recognized by Govt. of Maharashtra & DTE
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

Examination Section Date 20/10/2023

Notification

It is informed to all First and Second year students that **B. Tech Mid Semester Examinations** will be conducted from **26 October to 28 October 2023.**

Examinations	Semester	Scheduled Examinations
Mid Semester Examination 2023	I & III	26 October to 28 October 2023

Exam Instructions for Students

1. Before the Exam Check the exam timetable carefully. Make sure you know the time and locations of your exams.
2. Bring your Student ID. You will not be allowed into the exam hall without Student ID.
3. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
4. Ensure that you use the washroom before arriving for your exam as you will not be permitted to leave the Exam hall during Examination period.
5. Normally, you are required to answer questions using blue ink. Make sure you bring some spare pens with you.
6. Arrive at least 15 minutes before the exam is due to start and wait outside until you are allowed in.

Sr. No.	Details	Signature
1	HOD - Electrical	
2	HOD – Civil	
3	HOD – Computer	
4	HOD – Mechanical	
5	HOD - BSH	

Copy fwd. to:

1. All Heads of the departments, S.E.T.I. Panhala
2. All Department Exam coordinators, S.E.T.I. Panhala
3. Student notice board

ENGG. & TECH INSTITUTE PANHALA

Examination Coordinator   Academic Dean   PRINCIPAL

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Holy-wood Academy, Kolhapur

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA.

MID SEMESTER EXAMINATION TIME TABLE - October-2023

A.Y. 2023-24

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday, 26/10/2023	10.00 am To 11.00am	Computer	SY	BTBS301	Engineering Mathematics –III
		Civil	SY	BTBS301	Mathematics – III
		Electrical	SY	BTBS301	Engineering Mathematics-III
		Mechanical	SY	BTBS301	Engineering Mathematics III
		First Year	All Div	BTBS101	Engineering Mathematics - I
	02.30 pm To 03.30 pm	Computer	SY	BTCOC302	Discrete Mathematics
		Civil	SY	BTCVES302	Mechanics of Solids
		Electrical	SY	BTEEC302	Electrical Machines-I
		Mechanical	SY	BTMEC302	Fluid Mechanics
		First Year	Div A & B	BTBS102	Engineering Physics
			Div C	BTBS102	Engineering Chemistry
Friday, 27/10/2023	10.00 am To 11.00am	Computer	SY	BTCOC303	Data Structures
		Civil	SY	BTCVC303	Building Construction & Drawing
		Electrical	SY	BTEEC303	Electrical & Electronics Measurement
		Mechanical	SY	BTMC303	Thermodynamics
		First Year	Div A & B	BTES103	Engineering Graphics
			Div C	BTES103	Engineering Mechanics
	02.00 pm To 03.00 pm	Computer	SY	BTCOC304	Computer Architecture & Organization
		Civil	SY	BTCVC304	Hydraulics -I
		Electrical	SY	BTES305	Engineering Material Science
		Mechanical	SY	BTMES304	Material Science & Metallurgy
		First Year	Div A & B	BTHM104	Communication Skills
			Div C	BTES104	Computer Programming in C
Saturday, 28/10/2023	10.00 am To 11.00am	Computer	SY	BTCOC305	(b) Object Oriented Programming in Java
		Civil	SY	BTCVC305	Surveying
		First Year	Div A & B	BTES105	Energy and Environment Engineering

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Sanjeevan Engineering and Technology Institute, Panhala
Examination Department
Examination Duties Mid Semester Examination 2023-24

Sr. No.	Dept	Name of Staff	Role	26/10/23		27/10/23		28/10/23		
				10:00 to 11:00	2:30 to 3:30	10:00 to 11:00	2:00 to 3:00	10:00 to 11:00	2:30 to 3:30	Faculty sign
1	All	Mrs. Nilofer Khan	Jr. Supervisor	1				1		
2		Mrs. Afasana Sayyad	Jr. Supervisor		1		1			
3		Mrs. Sameena Sayyad	Jr. Supervisor	1				1		
4		Mr. Pradip Patil	Jr. Supervisor	1			1			
5		Mr. Ajit Patil	Jr. Supervisor	1			1	1		
6		Mr. Amol S. Katkar	Jr. Supervisor	1		1				
7		Mr. Metkari Vishal	Jr. Supervisor	1	1					
8		Mr. Thoke Amit C.	Jr. Supervisor	1		1				
9		Mr. Dhananjay Patil	Jr. Supervisor			1		1		
10		Mr. Deshmukh Sardar B.	Jr. Supervisor		1					
11		Mrs. N A Sayyad	Jr. Supervisor			1		1		
12		Mr. P D Pange	Jr. Supervisor		1	1				
13		Mr. Bhandare Arvind	Jr. Supervisor		1					
14		Mr. Babar Samrat Ashok	Jr. Supervisor		1	1				
15		Mr. Mevekari Jabbar Siraj	Jr. Supervisor		1	1				
16		Mr. Ghadage Yuvraj	Jr. Supervisor				1			
17		Mrs. Gauri Chavan	Jr. Supervisor				1			
18		Mr. N A Magdum	Jr. Supervisor				1			
19		Mrs. M. N Chavan	Jr. Supervisor				1			

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	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: III	**ACADEMIC YEAR: 2023-24**
NAME Of STUDENT:	**PRN.:**
CLASS: S.Y.	**Time : 2.00pm-3.00pm**
DAY & DATE: FRIDAY 27/10/2023	**Marks: 20**
SUBJECT NAME WITH CODE: HYDRAULICS I	**BTCVC 304**

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	For an incompressible fluid does density vary with temperature and pressure? a) It varies for all temperature and pressure range b) It remains constant c) It varies only for lower values of temperature and pressure d) It varies only for higher values of temperature and pressure			BL1	1
	b.	The pressure at any given point of a non-moving fluid is called the _____ a) Gauge Pressure b) Atmospheric Pressure c) Differential Pressure d) Hydrostatic Pressure			BL2	1
	c.	Calculate the specific weight and weight of 20 m^3 of petrol of specific gravity 0.6. a) 5886,117.2 b) 5886,234.2 c) 11772,117.2 d) None of the mentioned			BL3	1
	d.	Whose pressure can be determined by the bourdon tube pressure gauge? a) Solids b) Fluids c) Only Gas d) Only liquids			BL4	1

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Class : _____

2.		**Solve Any Two Of The Following**				$3 \times 2 = 6$
	a.	Give classification of Fluid flows.			BL3	3
	b.	What are the types of fluids?			BL4	3
	c.	State and explain Pascal's law			BL5	3
3		**Solve Any two of the following**				$5 \times 2 = 10$
	a.	Derive Bernoulli's equation from Euler's equation .			BL5	5
	b.	Derive 3D Continuity equation			BL5	5
	c.	Calculate the capillary rise in a glass tube of 205 mm dia. when immersed vertically in a)water b) mercury take surface tension $\sigma = 0.0725$ N/M for water and $\sigma = 0.52$ N/M for mercury sp.gr. for mercury is 13.6 and angle of contact is 130_o•			BL6	5

********** END **********

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Sanjeevan Knowledge City, Dist. Kolhapur. Pin.416 201

Name of the Student : _____

Class : _____ Roll No. : _____

Subject : _____ Date : _____

Language of Answer _____

Question No.	1	2	3	4	5	6	7	8	9	10	Total	out of	Examiner's Sign.
Marks obtainted													

Main Answersheet + No. of Supplement = Total
01 + =

Supervisor's Signature

HYD - I. MSE

Answer key.

Q. 1] a] → [illegible]

b] → a] True.

c] → a].

d] → b]

Q. 2] a] Classification of manometers

→ (1) Simple manometers-

(2) U Tube -

Differential, Column, Inverted. } 3 M.

b] Types of fluid.

→ Dia → 1 Mark

Real fluid

Ideal fluid

Ideal plastic

Newtonian fluid

Non newtonian fluid } 4 M.

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c] Pascal's law:-

Dia → 1 Mark.
Statement → 1 M.
Derivation → 2 M.

Q.3] Any two

a]. Dr Curved surface

Dia → 2 Mark.
Derivation - 3 M.

b] 3D Continuity eq^n:

→ Dia → 1 M.

→ Derivation 4 M.

$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0,$$

c] Capillary Rise - $\frac{4\sigma\cos\theta}{\rho g d}$

=

Capillary fall - $\frac{4\sigma\cos\theta}{\rho g d}$

=

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DTE Code : ENG3115

HOLLYWOOD ACADEMY'S

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Sanjeevan Knowledge City, Somwar Peth Jyoti, Panhala, Tal. Panhala, Dist. Kolhapur
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Examination Section

Date 09/10/2023 ~~10/09/2023~~

Notification

It is informed to all Final and Third year students that **B. Tech Mid Semester Examinations** will conducted from **12 October to 14 October 2023.**

Examinations	Semester	Scheduled Examinations
Mid Semester Examination 2023	V and VII	12 October to 14 October 2023

Exam Instructions for Students

1. Before the Exam Check the exam timetable carefully. Make sure you know the time and locations of your exams.
2. Bring your Student ID. You will not be allowed into the exam hall without Student ID.
3. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
4. Ensure that you use the washroom before arriving for your exam as you will not be permitted to leave the Exam hall during Examination period.
5. Normally, you are required to answer questions using blue ink. Make sure you bring some spare pens with you.
6. Arrive at least 15 minutes before the exam is due to start and wait outside until you are allowed in.

Sr. No.	Details	Signature
1	HOD - Electrical	
2	HOD – Civil	
3	HOD – Computer	
4	HOD – Mechanical	
5	HOD - BSH	

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2. All Department Exam coordinators, S.E.T.I. Panhala

Examination Coordinator

Academic Dean

PRINCIPAL

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Holy-wood Academy, Kolhapur

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA.

MID TERM EXAMINATION - October-2023 TIME TABLE A.Y. 2023-24

& Date	Time	Branch Name	Class	Subject Code	Subject Name
hursday 2/10/2023	10.00 am To 11.00am	Computer	TY	BTCOC501	Database Systems
			B.Tech	BTCOC701	Artificial Intelligence
		Civil	TY	BTCVC 501	Design of Steel Structures
			B.Tech	BTCVC701	Design of Reinf. & Prestressed Concrete Structure
		Electrical	TY	BTEEC501	Power System Analysis
			B.Tech	BTEEC701	High Voltage Engineering
		Mechanical	TY	BTMC501	Heat Transfer
			B.Tech	BTMEC701	Mechatronics
	02.30 pm To 03.30 pm	Computer	TY	BTCOC502	Theory of Computation
			B.Tech	BTCOE702	Cloud Computing
		Civil	TY	BTCVC 502	Geotechnical Engineering
			B.Tech	BTCVC702	Infrastructure Engineering
		Electrical	TY	BTEEC502	Microprocessor and Microcontroller
			B.Tech	BTEEC702	Power System Operation & Control
		Mechanical	B.Tech	BTMEC702	Industrial Engineering and Management
Friday, 13/10/2023	10.00 am To 11.00am	Computer	TY	BTCOC503	Software Engineering
			B.Tech	BTCOE703	c) Big data Analytics
		Civil	TY	BTCVC 503	Structural Mechanics –II
			B.Tech	BTCVC703	Construction Techniques
		Electrical	TY	BTEEC503	Power Electronics
			B.Tech	BTEEOE703	Electrical Utilization
		Mechanical	TY	BTMC503	Theory of Machines -II
			B.Tech	BTMEC703D	Advanced IC Engines
	02.30 pm To 03.30 pm	Computer	TY	BTCOE504	a) Human Computer Intereaction
			B.Tech	BTCOE704	a) Cryptography and Network Security
		Civil	TY	BTCVC 504	Concrete Technology
			B.Tech	BTCVC704	Professional Practices
		Electrical	TY	BTEEPE504	(A) HVDC
			B.Tech	BTEEOE704	Mechantronics
		Mechanical	TY	BTAPE504D	Automobile Engineering
			B.Tech	BTMEC704C	Pant Maintenance
Saturday, 14/10/2023	10.00 am To 11.00am	Computer	TY	BTHM505	(b) Business Communication
			B.Tech	BTCOE705	b) Deep Learning
		Civil	TY	BTHM505	Project Management
			B.Tech	BTCVE705I	Bridge Engineering
		Electrical	TY	BTEEOE505	(B) Electrical Safety
			B.Tech	BTEEOE705	Electric and Hybrid Electric vehicles
		Mechanical	TY	BTMOE505C	Human Resource Management
			B.Tech	BTMOE705C	Intellectual Property Rights
	02.30 pm To 03.30 pm	Civil	TY	BTCVPE506	Material, Testing and Evaluation
			B.Tech	BTCVOE706D	Introduction to Earthquake Engineering
		Mechanical	TY	BTMEC502	Applied Thermodynamics

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Examination Department

Examination Duties Mid Semester Examination 2022-23

Sr. No.	Dept	Name of Staff	Role	12/10/2023		13/10/2023		14/10/2023		Faculty sign
				10:00 to 11:00	2:30 to 3:30	10:00 to 11:00	2:30 to 3:30	10:00 to 11:00	2:30 to 3:30	
1	Civil	Mr. Chavan Shrivallabh Sarjerao	Jr. Supervisor			1		1		
2		Akshata Tonnne				1	1			
3		Rutuja Bhore			1	1				
4		Miss. Momin Anarkali Majid	Jr. Supervisor	1						

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	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: Final Year B. Tech.	**Time : 10.00am -11.00am**
DAY & DATE:	**Marks: 20**
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	According to IS 456:2000 what is minimum eccentricity of the load applied to column A. 40 B. 20 C. 10 D 30	02			1
	b.	According to IS 456:2000 minimum number of longitudinal bar provided to circular column is A. 6 B. 8 C 10 D 4	02			1
	c.	According to IS 456:2000 minimum percentage of steel provided to column is A. 0.6 B. 0.8 C 1.0 D 0.4	02			1
	d.	A short RCC column is designed maximum permissible compressive stress in concrete A. 0.4 fck B. 0.44 fck C 0.67 fck D 1 fck	02			1
2.		**Solve Any Two Of The Following**				3 ×2 = 6
	a.	Explain the torsion acting on beam.	01			3
	b.	Explain longitudinal and transverse reinforcement for column.	02			3
	c.	What are the advantages of Prestress concrete structure	02			3
3		**Solve Any two of the following**				5 ×2 = 10
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.	03			5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter	02			5

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Answer Key

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	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	ACADEMIC YEAR: 2023-24
NAME Of STUDENT:	PRN.:
CLASS: Final Year B. Tech.	Time :
DAY & DATE: 12/10/2023	Marks: 20
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator and IS code are allowed

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following				4×1 =4
	a.					1
	b.	MCQ.				1
	c.	MCQ.				1
	d.	MCQ.				1
2.		Solve Any Two Of The Following				3 ×2 = 6
	a.	Explain the torsion acting on beam.				3
	b.	Explain longitudinal and transverse reinforcement for column.				3
	c.	What are the advantages of Prestress concrete structure				3
3		Solve Any two of the following				5 ×2 = 10
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.				5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter are used as main steel. Use M20 concrete & Fe 415 steel.				5
	c.	A rectangular beam 300 mm wide & 500 mm effective depth. Beam carries factored BM 175 KN, factored Shear force 25 KN& torsional moment 10 KNm. Calculate equivalent bending moment.				5

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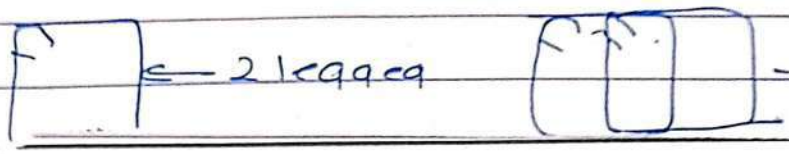
provided to support longitudinal steel. It also confines the concrete. It is in the forms of links. They may be 2 legged or 4 legged.



MID term exam. (Answer key).
Design of Reinf & Prestressed concrete stru.

Q. 1.

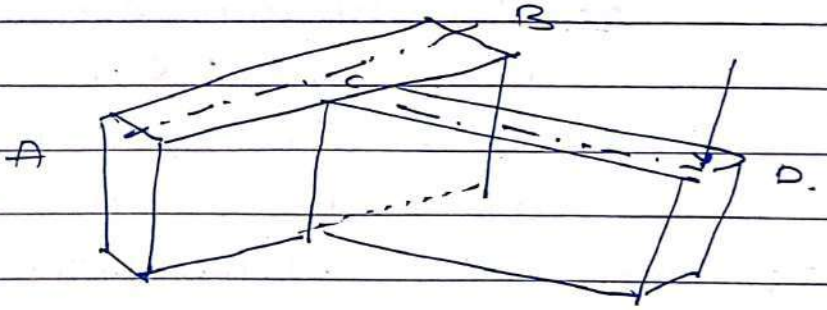
a.

b.

c.

d.

Q. 2.) Explain torsion acting on beam.



When AB subjected to bending due to out of plane moment i.e. moment due to force on beam CD, Beam AB twisted about its longitudinal axis. this is called torsion, moment acting is called

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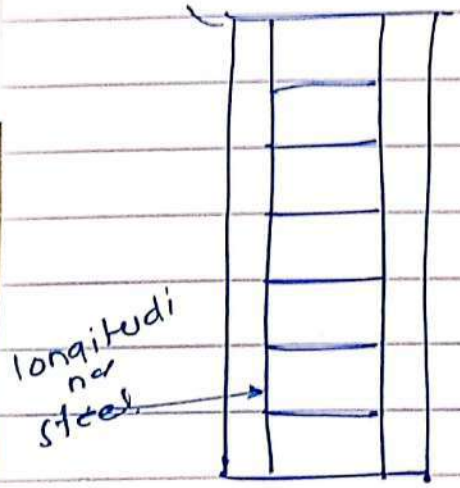
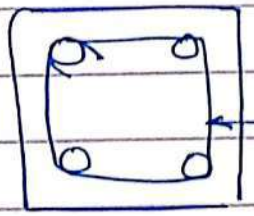
actig on beam is increased.

(b) Longitudinal & Transverse Reinf



Longitudinal steel is vertical steel present in column. This steel provided to take axial load on column. Min bar dia. of longitudinal steel is 12mm. Min 0.8%. & max 6% steel is provided as a longitudinal steel.



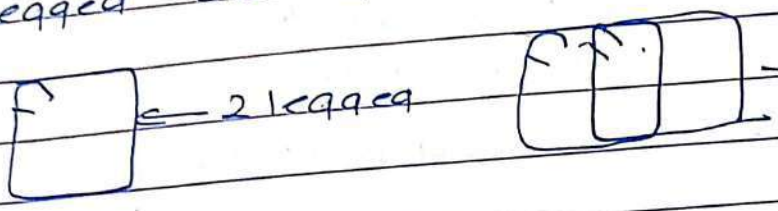
$\therefore P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$.

A_{st} in above eqn gives longitudinal steel.

Transverse steel

It is max steel

provided to support longitudinal strel. It also confines the concrete. It is in the forms of links. that may be 2 legged or 4 legged.



(c) Advantage of prestress concrete

(1) It can be provided for longer span without intermittent support
(2) It uses for grade concrete, so their is less shrinkge & creep of concrete
(3) It gives small sect as compared to that of R.C.C.
(4) Fast construction
(5) Savig in material due to slender section
(6) Bulk mfg is possible.

Q. 3

(a) $b = 375$ mm. $d = 750$ mm.
$P = 1570$ KN $L = 12.5$ m.
$e = 150$ mm. $LL = 12.5$ KN/m.
$f = ?$ $DL = 7$ KN/m

$$Z = \frac{bd^2}{6} = \frac{375 \times 750^2}{6} = 35.15 \times 10^6 \text{ mm}^3$$

(b) $M_{OD} = M_L = 12.5 + 7 = 19.5$ KN/m

$$M = \frac{ML^2}{8} = \frac{19.5 \times 12.5^2}{8} = 380.85 \text{ KN.m}$$

$f = \frac{P}{A} \pm \frac{P \cdot e}{Z} \pm \frac{M}{Z}$

$= \frac{1570 \times 10^3}{375 \times 750} \pm \frac{1570 \times 10^3 \times 150}{35.15 \times 10^6}$

$\pm \frac{380.85 \times 10^6}{35.15 \times 10^6}$

$f = 5.58 \pm 6.69 \pm 10.83$

(b) L.C.C = ?

b = 230 mm

D = 450 mm

$A_{st} = 6 \times \frac{\pi}{4} (12)^2 = 678.67 \ mm^2$

$f_{ck} = 20 \ N/mm^2$ $f_y = 415 \ N/mm^2$

$A_{st} = 0.01 A_g$. $A_c = 0.99 A_g$

$P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$

$= 0.4 \times 20 \times A_c + 0.67 \times 415 \times A_{st}$

$= 0.4 \times 20 \times (230 \times 450 - 678.67)$

$+ 0.67 \times 415 \times 678.67$

$P_u = 1011.28 \ kN$

HOD

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Dist. Kolhapur - 416 201 (M.S.)

Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad(402103)

Subject: (BTCVC701) Design of Reinforced & Prestressed Concrete Structures

Faculty Name: Jabbar Siraj Mevekari

Date: January 3rd 2024, 11:46:15 AM

Sr.No	PRN	Name	Continuous Assessment (CA) Max : 20	Mid-Semester Exam (MSE) Max : 20
1	2063151191068	DAREKAR ATUL SARJERAO	15	14
2	T2063151191001	ASHWIN ARUN SAWANT	10	10
3	T2063151191002	DADASAHEB NAVNEET DHANGAR	18	18
4	T2063151191003	HARSHAVARADHN JAGANNATH PATIL	15	15
5	T2063151191004	JAYESH RAJARAM SOLANKURKAR	10	10
6	T2063151191006	SHABDALI SHIVAJI CHOUGULE	18	18
7	T2063151191007	SHIVAM VINOD JADHAV	18	18
8	T2063151191008	SHIVAM ARUN CHAVAN	17	17
9	T2063151191009	SUMIT SURESH PATIL	18	18
10	T2063151191010	SUPRIYA SUBHASH FUTANE	18	18
11	T2063151191011	NIKAM VIVEK VISHWAS	18	18
12	T2063151191012	NIKHIL NILESH MISAL	10	10
13	T2163151191501	MANE AADITYA BAJIRAO	16	11
14	T2163151191502	DESAI JANARDAN DATTATRAY	16	11
15	T2163151191503	PATIL VINAYAK VILAS	15	10
16	T2163151191504	PATIL ROHIT DINKAR	16	11
17	T2163151191505	IMPAL DHANRAJ JANARDAN	16	12
18	T2163151191506	SHINDE SANKET SURYAKANT	18	18
19	T2163151191507	CHOUGALE SHUBHAM BABASO	18	16
20	T2163151191508	JAMDADE AMIT UTTAM	18	16
21	T2163151191509	DESHMUKH RUSHIKESH ANANDA	15	10

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Sr.No	PRN	Name	Continuous Assessment (CA) Max : 20	Mid-Semester Exam (MSE) Max : 20
22	T2163151191510	PATIL SUSHANT MOHAN	16	10
23	T2163151191511	KUIGADE SHIVAM SANJAY	18	10
24	T2163151191512	KARANDE VIJAY UMRAO	10	10
25	T2163151191514	KAMBLE RUSHIKESH SURESH	18	12
26	T2163151191515	PATIL SARTHAK SANGRAM	18	18
27	T2163151191516	KATKAR SOHAM SANJAY	18	17
28	T2163151191518	DESHMUKH PRASHANT SARJERAO	18	11
29	T2163151191519	BOKKA SURYA PRAKASH SRINIVASRAO	10	10
30	T2163151191521	PATIL RAJWARDHAN SUBHASH	11	12
31	T2163151191522	DESHMUKH RAHUL PRAKASH	14	14
32	T2163151191524	KAMBLE SAURABH SANJAY	16	14
33	T2163151191525	NARKE PIYUSH JAYAVANT	16	14
34	T2163151191526	GURAV PRANAV PRAKASH	16	14
35	T2163151191527	BALAP ROHIT SANJAY	14	16
36	T2163151191528	PATIL TUSHAR SHIVAJI	16	14
37	T2163151191531	PATIL AADITYA BALASO	16	12
38	T2163151191532	PATIL PRUTHVIRAJ BABASAHEB	16	10
39	T2163151191533	NIRUKHE SHIVRAJ SARJERAO	16	14
40	T2163151191534	DEVANE SHIVAM NANDKUMAR	16	12
41	T2163151191535	GORE GANESH SHRIMANT	10	10
42	T2163151191536	PAWAR ASHISH GORAKSHA	16	14
43	T2163151191537	KHIRUGADE SUMEET SUNIL	18	18
44	T2163151191539	PATIL AKASH BABAN	18	12
45	T2163151191541	LOKHANDE MADHAV SUNIL	18	18
46	T2163151191542	JUGALE ABHISHEK CHANDRASHEKHAR	18	18
47	T2163151191543	JOUNDAL RUSHIKESH BABASO	18	12

Sr.No	PRN	Name	Continuous Assessment (CA) Max : 20	Mid-Semester Exam (MSE) Max : 20
48	T2163151191545	GAIKWAD RUTIK SUNIL	10	16
49	T2163151191546	PATIL ADITYA DEEPAK	16	12
50	T2163151191547	MAHADIK SWAROOP SUBHASH	12	12
51	T2163151191548	GAIKWAD KEDAR SURYAKANT	10	11
52	T2163151191550	KAMBLE AJIT BHIKAJI	16	14
53	T2163151191552	OTARI YASH MANOJ	10	10
54	T2163151191554	PATIL AJINKYA NANDKUMAR	16	12
55	T2163151191555	PATIL ROUNAK CHANDRASHEKHAR	16	17
56	T2163151191556	PATIL YOGESH YUVRAJ	16	17
57	T2163151191558	SONAWALE OMKAR TANAJI	12	10

Faculty Name : Jabbar Siraj Mevekari
Faculty Signature :
Faculty Confirmation On : 03-January-2024, 10:28 AM

HOD Name : MALLIKARJUNAYYA NINGAYYA HIREMATH
HOD Signature :
HOD Confirmation On : 03-January-2024, 10:55 AM

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DTE Code : ENG3115

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AICTE ID : 1-8019151
AISHE Code : C-11163

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NOTICE

CA -I

S.Y.,T.Y. and B.Tech.

(SEM-III,V,VII)

Date --15/09/23

The **CA-I** test for S.Y.,T.Y. and B.Tech.Scheduled on **26th September 2023.** In regard all the staff here by informed that , they have to submit their **CA-I** TEST question paper hard copy 2 set Exam co-ordinator on or **before 16th September 2023**till 4 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator

Prof. A. C. Thoke

Exam co-ordinator

Dr. M.N.Hiremath

H.O.D. Civil

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1 EPS –
2 JSM –
3 SSC –
4 AMM
5 ART –
6 RSB –
7 NiK –

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DTE Code : EN6315

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All the Students are hereby informed that,CA-I is schedule on 26 September 2023. Time Table is given as follow's

CA 1 EXAM TIME TABLE 2023-2024				
DATE	TIME	S.Y.	T.Y.	B.Tech
26/09/23	10:00AM To 10 30AM	MOS	DSS	DRPS
	10:40AM To 11 10AM	HYD-I	GT	PP
	11:20AM To 11 50AM	MIII	SM-II	IE
	12 00 To 12 30PM	SUR	CT	CP
	2:15PM To 2 45PM	BCD	PM	BRE
	3:00PM To 3 30PM		MTE	EQ

Dept Exam Incharge
(Mr Amit C Thoke)

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ART -
RCB -
SSC -
AMM -
JSM -
NGK -
EPS -

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DTE Code : EN6315

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CA-I TIME TABLE 2023-2024				
SEATING ARRANGEMENT				
DATE	CLASS	A106	A107	A108
26/09/23	S.Y.	-	-	1 To 11
	T.Y.	1 To 35	36 To 50	-
	B.Tech.	-	1 To 35	36 To 65

Dept.Exam. Incharge
(Mr.Amit C.Thoke)

15/9/23

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ART -

R.S.B -

SSC -

AMM -

JSM -

Hi.K -

EPS -

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AISHE Code : C-41165

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CA-I TIME TABLE 2023-2024 SUPERVISION CHART				
DATE	**TIME**	**A106**	**A107**	**A108**
26/09/23	10:00AM To 10.30AM	Prof.J.S.Mevekari	Prof.A.R.Tonne	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof.A.R.Tonne	Prof.J.S.Mevekari	Prof.R.S.Bore
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof.R.S.Bore	Prof.J.S.Mevekari
	12:00 To 12:30PM	Prof.A.R.Tonne	Prof.S.S.Chavan	Prof. Momin A.M.
	2:15PM To 2:45PM	Prof.S.S.Chavan	Prof. Momin A.M.	Prof.R.S.Bore
	3:00PM To 3:30PM	Prof.R.S.Bore	Prof.S.S.Chavan	Prof.A.R.Tonne

Dept.Exam. Incharge
(Mr.Amit C.Thoke)

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RSB -
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SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA
DEPARTMENT OF CIVIL ENGINEERING
C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular		1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above		1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.		1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law		1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point		1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere		1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous		1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area		1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm^2 D) Nmm		1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain		1	1	1

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DEPARTMENT OF CIVIL ENGINEERING

C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular	B	1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above	C	1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.	A	1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law	B	1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point	D	1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere	C	1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous	B	1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area	D	1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm² D) Nmm	C	1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain	B	1	1	1

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

ass – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

ite – 10 /05 /2024 Time – 09:30 am to 10:00 am

ıme of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

o	Question	Ans	CO	PO	Mks
	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation		4	1	
	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid		4	1	
	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation		4	1	
	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors		4	1	
	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False		3	1	
	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe		3	1	
	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene		3	1	
	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical free d) Light weight & corrosion		3	1	
	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		5	1	
	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above		5		

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 10 /05 /2024 Time – 09:30 am to 10:00 am

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation	B	4	1	
2	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid	A	4	1	
3	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation	B	4	1	
4	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors	B	4	1	
5	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False	B	3	1	
6	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe	C	3	1	
7	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene	B	3	1	
8	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical d) Light weight & corrosion free	D	3	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	5	1	
10	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above	D	5	1	

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
	SEMESTER: IV — **ACADEMIC YEAR: 2023-24**
	NAME Of STUDENT: — **PRN.:**
	CLASS: Third Year B. Tech. — **Time :**
	DAY & DATE: Friday - 19/4/24 — **Marks: 20**
	SUBJECT NAME WITH CODE: Transportation Engineering

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	The stopping sight distance does not depend on _____ a) Break reaction time b) Visibility limit c) Head light distance d) Overtaking sight distance				1
	b.	The camber required depends on _____ a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall characteristics				1
	c.	penetration test on bitumen is used for determining a) Temperature susceptibility b) Grade c) Viscosity d) Ductility				1
	d.	The function of expansion joint in rigid pavement is a) Relieve wrapping stresses b) Relieve shrinkage stresses c) Resist stresses due to expansion d) Allow free expansion				1
2.		**Solve Any Two Of The Following**				3 ×2 = 6
	a.	Write types of sight distances. in details.				3
	b.	Write note on PIEV theory.				3
	c.	Explain in detail classification of road?				3

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3		**Solve Any two of the following**					**5 ×2 = 10**
	a.	The speed of overtaking and the overtaken vehicle is 80kmph and 65 kmph respectively on two-way traffic. The acceleration of the overtaking vehicle is 3.6 kmph. Calculate. (i) Safe overtaking sight distance. (ii) Minimum and desirable overtaking zone. assume total reaction time = 2 seconds.					5
	b.	Draw the section of pavement and explain its elements					5
	c.	Write a short note on CBR Test					5

********** END **********

MSE

TRE -2023-24

ANSWER KEY

Sight distance is a critical factor in road design and traffic safety, ensuring that drivers have adequate visibility to make safe maneuvers. The main types of sight distances include:

1. Stopping Sight Distance (SSD)

Stopping Sight Distance is the minimum sight distance required for a driver to perceive an obstacle in the road, react to it, and bring the vehicle to a complete stop before reaching the obstacle.

Components of SSD:

- **Perception-Reaction Distance (PRD):** The distance traveled during the time it takes for the driver to perceive a hazard and initiate a braking response. The standard perception-reaction time is generally considered to be 2.5 seconds.
- **Braking Distance (BD):** The distance required to stop the vehicle once the brakes are applied. This distance depends on the vehicle's speed, the road's grade, and the coefficient of friction between the tires and the road surface.

SSD=V×tr+V22×g×f\text{SSD} = V \times t_r + \frac{V^2}{2 \times g \times f}SSD=V×tr +2×g×fV2

where:

- VVV = initial speed of the vehicle
- trt_rtr = perception-reaction time
- ggg = acceleration due to gravity
- fff = coefficient of friction between the road and tires

2. Passing Sight Distance (PSD)

Passing Sight Distance is the minimum distance required for a driver to safely overtake another vehicle without causing a hazard to oncoming traffic. This distance ensures that the overtaking maneuver can be completed safely with clear visibility of the road ahead.

3. Decision Sight Distance (DSD)

Decision Sight Distance is the distance required for a driver to detect an unexpected or complex situation, recognize the need for a response, select an appropriate response, and complete the maneuver safely. This distance is generally longer than the stopping sight distance because it accounts for more complex decision-making processes.

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4. Intersection Sight Distance (ISD)

Intersection Sight Distance is the distance required at intersections to ensure that drivers have a clear view of oncoming traffic from all directions, allowing them to proceed safely through the intersection.

5. Horizontal Sight Distance

Horizontal Sight Distance pertains to the visibility around curves on a horizontal plane. It ensures that drivers can see far enough ahead around curves to react to obstacles or changes in the road alignment.

6. Vertical Sight Distance

Vertical Sight Distance pertains to the visibility over the crest of hills. It ensures that drivers can see far enough over the crest to react to obstacles or changes in the road alignment on the other side.

Each type of sight distance is essential for different driving scenarios and ensures that roads are designed to allow for safe and efficient traffic flow. Proper calculation and implementation of these sight distances help in reducing accidents and improving overall road safety.

Q.2 PIEV Theory

1. Perception

Perception is the initial phase in which the driver becomes aware of a stimulus or hazard. This could be anything from a traffic signal, a pedestrian, another vehicle, or an obstacle on the road. During this phase, the driver's sensory organs, primarily sight, detect the stimulus. The time taken for perception can vary based on factors such as visibility, driver's alertness, and the complexity of the driving environment.

2. Intellection

Intellection is the cognitive process where the driver interprets and understands the perceived stimulus. It involves analyzing the situation, identifying the nature of the hazard, and comprehending the potential risks involved. This phase requires mental processing and can be influenced by the driver's experience, knowledge, and familiarity with the road conditions.

3. Emotion

Emotion refers to the driver's emotional response to the perceived and understood stimulus. This phase involves the driver's psychological state, which can influence the decision-making process. Emotions such as fear, panic, stress, or even overconfidence can affect how quickly and effectively the driver reacts. A calm and experienced driver might handle the situation better than a novice or anxious driver.

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4. Volition

Volition is the decision-making and action phase where the driver decides on and executes a response to the hazard. This could involve braking, steering, accelerating, or other maneuvers to avoid a collision or navigate safely. The effectiveness of this response depends on the driver's physical abilities, reaction time, and the mechanical condition of the vehicle.

Factors Influencing PIEV

- **Driver's Age and Experience:** Younger or less experienced drivers might have slower perception and intellection phases compared to seasoned drivers.
- **Environmental Conditions:** Poor visibility due to fog, rain, or nighttime driving can affect the perception phase.
- **Vehicle Condition:** The mechanical condition of the vehicle, such as brake responsiveness and tire quality, influences the volition phase.
- **Distractions:** In-car distractions (e.g., mobile phones, passengers) can significantly delay the perception and intellection phases.

3. Classification Based on Function

a. Arterial Roads

- **Primary Arterial (Major Arterial):** These roads provide high-capacity urban and regional travel routes, connecting major cities, towns, and regions. They have limited access points and prioritize through traffic.
- **Secondary Arterial (Minor Arterial):** These roads provide service for moderate-length trips, connecting primary arterials with smaller urban centers and neighborhoods.

b. Collector Roads

- **Major Collector:** These roads gather traffic from local roads and funnel it to arterial roads. They serve intra-city travel and provide access to residential, commercial, and industrial areas.
- **Minor Collector:** These roads collect traffic from local streets and connect it to major collectors and arterial roads.

c. Local Roads

- **Urban Local Roads:** These roads provide direct access to residential, commercial, and industrial properties. They have low traffic volumes and speeds.
- **Rural Local Roads:** These roads serve rural areas, connecting individual properties and small communities to collector and arterial roads.

2. Classification Based on Design Standards

Design-based classification considers the road's construction and geometric features.

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SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area		1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area		1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area		1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping		1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level		1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building		1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity		1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect		1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		1	1	
10	Residential building includes c) Bungalows b) Apartments d) Row Housings d) All of above		1	1	

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area	D	1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area	B	1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area	C	1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping	D	1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level	C	1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building	D	1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity	C	1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect	D	1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	1	1	
10	Residential building excludes a) Bungalows b) Apartments b) Row Housings d) All of above	D	1	1	

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DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time – 10.40 am-11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular		2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level		2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame		2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing		2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above		2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level		3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)		3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight		3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight		3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m		3		1

END

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Model Answer Sheet

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SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time –10.40 am- 11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular	A	2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level	B	2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame	B	2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing	B	2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above	D	2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level	B	3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)	D	3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight	C	3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight	A	3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m	A	3		1

END

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: III	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: S.Y.	**Time : 2.00pm-3.00pm**
DAY & DATE: FRIDAY 27/10/2023	**Marks: 20**
SUBJECT NAME WITH CODE: HYDRAULICS I	**BTCVC 304**

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	For an incompressible fluid does density vary with temperature and pressure? a) It varies for all temperature and pressure range b) It remains constant c) It varies only for lower values of temperature and pressure d) It varies only for higher values of temperature and pressure			BL1	1
	b.	The pressure at any given point of a non-moving fluid is called the _____ a) Gauge Pressure b) Atmospheric Pressure c) Differential Pressure d) Hydrostatic Pressure			BL2	1
	c.	Calculate the specific weight and weight of 20 m^3 of petrol of specific gravity 0.6. a) 5886,117.2 b) 5886,234.2 c) 11772,117.2 d) None of the mentioned			BL3	1
	d.	Whose pressure can be determined by the bourdon tube pressure gauge? a) Solids b) Fluids c) Only Gas d) Only liquids			BL4	1

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Class : _____

2.		**Solve Any Two Of The Following**				$3 \times 2 = 6$
	a.	Give classification of Fluid flows.			BL3	3
	b.	What are the types of fluids?			BL4	3
	c.	State and explain Pascal's law			BL5	3
3		**Solve Any two of the following**				$5 \times 2 = 10$
	a.	Derive Bernoulli's equation from Euler's equation .			BL5	5
	b.	Derive 3D Continuity equation			BL5	5
	c.	Calculate the capillary rise in a glass tube of 205 mm dia. when immersed vertically in a)water b) mercury take surface tension $\sigma = 0.0725$ N/M for water and $\sigma = 0.52$ N/M for mercury sp.gr. for mercury is 13.6 and angle of contact is 130_{o}•			BL6	5

********** END **********

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Name of the Student : _____

Class : _____ Roll No. : _____

Subject : _____ Date : _____

Language of Answer _____

Question No.	1	2	3	4	5	6	7	8	9	10	Total	out of	Examiner's Sign.
Marks obtainted													

Main Answersheet + No. of Supplement = Total
01 + =

Supervisor's Signature

HYD - I. MSE

Answer key.

Q. 1] a] → d]

b] → a] True.

c] → a].

d] → b]

Q. 2] a] Classification of manometers

→ (1) Simple manometers.

(2) U Tube -

Differential Column Inverted. } 3 M.

b] Types of fluid.

→ Dia → 1 Mark

Real fluid

Ideal fluid

Ideal plastic

Newtonian fluid

Non newtonian fluid } 4 M.

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c] Pascal's law:-

Dia → 1 Mark.
Statement → 1 M.
Derivation → 2 M.

Q.B] Any two

a]. Dr Curved surface

Dia → 2 Mark.
Derivation - 3 M.

b] 3D Continuity eq?

→ Dia → 4 M.
→ Derivation 4 M.

$$\therefore \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0,$$

c] Capillary Rise - $\frac{4\sigma\cos\theta}{\rho g d}$

=

Capillary fall - $\frac{4\sigma\cos\theta}{\rho g d}$

=

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	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: Final Year B. Tech.	**Time : 10.00am -11.00am**
DAY & DATE:	**Marks: 20**
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				**4×1 =4**
	a.	According to IS 456:2000 what is minimum eccentricity of the load applied to column A. 40 B. 20 C. 10 D 30	02			1
	b.	According to IS 456:2000 minimum number of longitudinal bar provided to circular column is A. 6 B. 8 C 10 D 4	02			1
	c.	According to IS 456:2000 minimum percentage of steel provided to column is A. 0.6 B. 0.8 C 1.0 D 0.4	02			1
	d.	A short RCC column is designed maximum permissible compressive stress in concrete A. 0.4 fck B. 0.44 fck C 0.67 fck D 1 fck	02			1
2.		**Solve Any Two Of The Following**				**3 ×2 = 6**
	a.	Explain the torsion acting on beam.	01			3
	b.	Explain longitudinal and transverse reinforcement for column.	02			3
	c.	What are the advantages of Prestress concrete structure	02			3
3		**Solve Any two of the following**				**5 ×2 = 10**
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.	03			5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter	02			5

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Answer Key

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	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	ACADEMIC YEAR: 2023-24
NAME Of STUDENT:	PRN.:
CLASS: Final Year B. Tech.	Time :
DAY & DATE: 12/10/2023	Marks: 20
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator and IS code are allowed

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following				4×1 =4
	a.					1
	b.	MCQ.				1
	c.	MCQ.				1
	d.	MCQ.				1
2.		Solve Any Two Of The Following				3 ×2 = 6
	a.	Explain the torsion acting on beam.				3
	b.	Explain longitudinal and transverse reinforcement for column.				3
	c.	What are the advantages of Prestress concrete structure				3
3		Solve Any two of the following				5 ×2 = 10
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.				5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter are used as main steel. Use M20 concrete & Fe 415 steel.				5
	c.	A rectangular beam 300 mm wide & 500 mm effective depth. Beam carries factored BM 175 KN, factored Shear force 25 KN& torsional moment 10 KNm. Calculate equivalent bending moment.				5

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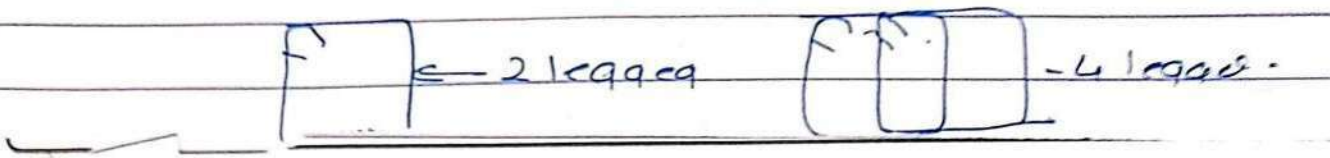
provided to support longitudinal steel. It also confines the concrete. It is in the forms of links. They may be 2 legged or 4 legged.



MID term from. (Answer key).
Design of Reinf & Prestressed concrete stru.

Q. 1.

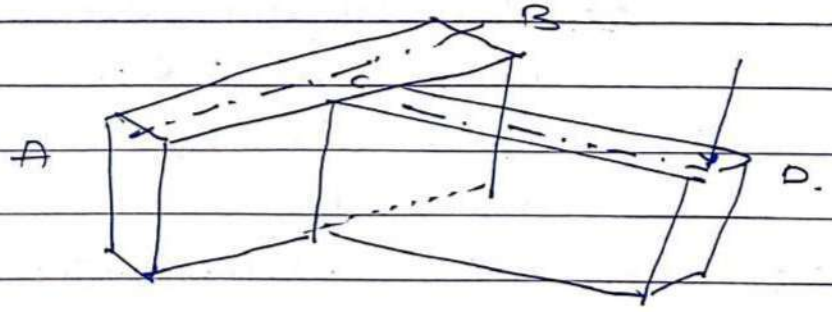
a.

b.

c.

d.

Q. 2) Explain torsion acting on beam.



When AB subjected to bending due to out of plane moment i.e. moment due to force on beam CD, Beam AB twisted about its longitudinal axis. this is called torsion, moment and force.

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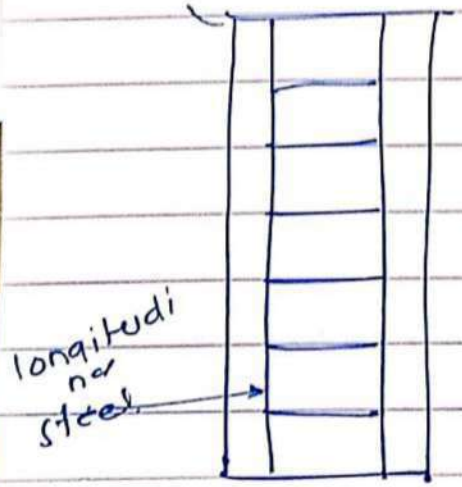
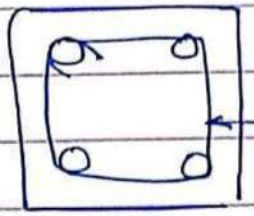
actig on beam is increased.

(b) Longitudinal & Transverse Reinf



Longitudinal steel is vertical steel present in column. This steel provided to take axial load on column. Min bar dia. of longitudinal steel is 12 mm. Min 0.8%. & max 6% steel is provided as a longitudinal steel.



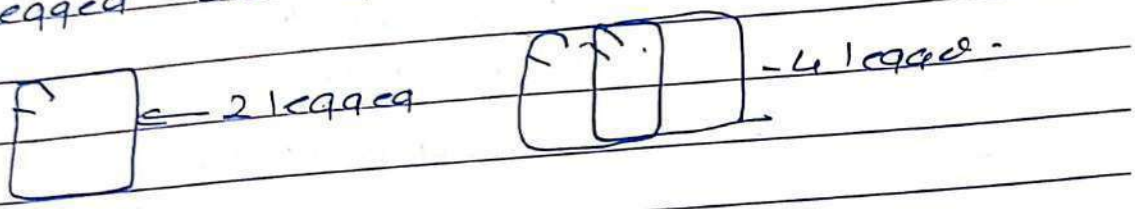
$\therefore P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$.

A_{st} in above eqn gives longitudinal steel.

Transverse steel

It is max steel

provided to support longitudinal strel. It also confines the concrete. It is in the forms of links. that may be 2 legged or 4 legged.



(c) Advantage of prestress concrete

(1) It can be provided for longer span without intermittent support
(2) It uses for grade concrete, so their is less shrinkge & creep of concrete
(3) It gives small sect^n as compared to that of R.C.C.
(4) fast construction
(5) savig in material due to slender section
(6) Bulk mfg is possible.

Q. 3

(a) $b = 375$ mm. $d = 750$ mm.
$P = 1570$ KN $L = 12.5$ m.
$e = 150$ mm. $LL = 12.5$ KN/m.
$f = ?$ $DL = 7$ KN/m

$$Z = \frac{bd^2}{6} = \frac{375 \times 750^2}{6} = 35.15 \times 10^6 \text{ mm}^3$$

$M_{DD} + M_L = 12.5 + 7 = 19.5$ KN/m

$$M = \frac{wL^2}{8} = \frac{19.5 \times 12.5^2}{8} = \frac{380.85}{\text{KN.m}}$$

$$f = \frac{P}{A} \mp \frac{P \cdot e}{Z} \pm \frac{M}{Z}$$

$$= \frac{1540 \times 10^3}{275 \times 750} \mp \frac{1570 \times 10^3 \times 150}{35.15 \times 10^6}$$

$$\pm \frac{380.85 \times 10^6}{35.15 \times 10^6}$$

$$\boxed{f = 5.58 \mp 6.69 \pm 10.83}$$

(b) L.C.C = ?

$b = 230$ mm.

$D = 450$ mm

$A_{st} = 6 \times \frac{\pi}{4} (12)^2 = 678.67\ mm^2$

$f_{ck} = 20\ N/mm^2 \quad f_y = 415\ N/mm^2$

$A_{st} = 0.01\ A_g \quad A_c = 0.99\ A_g$

$P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$

$= 0.4 \times 20 \times A_c + 0.67 \times 415 \times A_{st}$

$= 0.4 \times 20 \times (230 \times 450 - 678.67)$

$+ 0.67 \times 415 \times 678.67$

$\boxed{P_u = 1011.28\ kN}$

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SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA
DEPARTMENT OF CIVIL ENGINEERING
C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular		1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above		1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.		1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law		1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point		1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere		1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous		1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area		1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm² D) Nmm		1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain		1	1	1

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DEPARTMENT OF CIVIL ENGINEERING

C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular	B	1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above	C	1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.	A	1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law	B	1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point	D	1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere	C	1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous	B	1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area	D	1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm² D) Nmm	C	1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain	B	1	1	1

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

ass – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

ite – 10 /05 /2024 Time – 09:30 am to 10:00 am

ıme of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

o	Question	Ans	CO	PO	Mks
	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation		4	1	
	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid		4	1	
	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation		4	1	
	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors		4	1	
	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False		3	1	
	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe		3	1	
	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene		3	1	
	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical free d) Light weight & corrosion		3	1	
	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		5	1	
	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above		5		

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C. A. 2

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 10 /05 /2024 Time – 09:30 am to 10:00 am

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	The term _____ is used to mean the free passage of clean air in a structure. a) Circulation b) Ventilation c) Dissipation d) Condensation	B	4	1	
2	It is quite evident that the incoming air for ventilation should be _____ in summer and _____ in winter before it enters the room. a) cool, warm b) warm, cool c) humid, dry d) dry, humid	A	4	1	
3	In _____ system, the use is made of doors, windows, ventilators and skylights to make the room properly ventilated. a) Artificial ventilation b) Natural ventilation c) Air conditioning d) Mechanical ventilation	B	4	1	
4	Exhaust system, supply system, air conditioning, etc. comes under _____ type of ventilation system. a) Natural b) Mechanical c) Man made d) Doors	B	4	1	
5	One pipe system is cheaper than the single stack system for the drainage of buildings. a) True b) False	B	3	1	
6	Which pipe is mostly used for carrying cold water? a) Copper pipe b) Steel pipe c) PVC pipe d) Lead pipe	C	3	1	
7	Which pipe is used for carrying cold and hot water? a) Poly propylene b) Poly propylene random co-polymer c) High density poly ethylene d) Low density poly ethylene	B	3	1	
8	State the two advantages of PVC pipes? a) Durable and corrosion free b) Durable and economical c) Light weight and economical d) Light weight & corrosion free	D	3	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	5	1	
10	Which of the following is not the purpose of a green building? a) To reduce use of water b) To minimize damage c) Re-use of waste materials d) None of the above	D	5	1	

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
	SEMESTER: IV — **ACADEMIC YEAR: 2023-24**
	NAME Of STUDENT: — **PRN.:**
	CLASS: Third Year B. Tech. — **Time :**
	DAY & DATE: Friday - 19/4/24 — **Marks: 20**
	SUBJECT NAME WITH CODE: Transportation Engineering

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	The stopping sight distance does not depend on _____ a) Break reaction time b) Visibility limit c) Head light distance d) Overtaking sight distance				1
	b.	The camber required depends on _____ a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall characteristics				1
	c.	penetration test on bitumen is used for determining a) Temperature susceptibility b) Grade c) Viscosity d) Ductility				1
	d.	The function of expansion joint in rigid pavement is a) Relieve wrapping stresses b) Relieve shrinkage stresses c) Resist stresses due to expansion d) Allow free expansion				1
2.		**Solve Any Two Of The Following**				3 ×2 = 6
	a.	Write types of sight distances. in details.				3
	b.	Write note on PIEV theory.				3
	c.	Explain in detail classification of road?				3

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3		**Solve Any two of the following**					**5 ×2 = 10**
	a.	The speed of overtaking and the overtaken vehicle is 80kmph and 65 kmph respectively on two-way traffic. The acceleration of the overtaking vehicle is 3.6 kmph. Calculate. (i) Safe overtaking sight distance. (ii) Minimum and desirable overtaking zone. assume total reaction time = 2 seconds.					5
	b.	Draw the section of pavement and explain its elements					5
	c.	Write a short note on CBR Test					5

********** END **********

MSE

TRE -2023-24

ANSWER KEY

Sight distance is a critical factor in road design and traffic safety, ensuring that drivers have adequate visibility to make safe maneuvers. The main types of sight distances include:

1. Stopping Sight Distance (SSD)

Stopping Sight Distance is the minimum sight distance required for a driver to perceive an obstacle in the road, react to it, and bring the vehicle to a complete stop before reaching the obstacle.

Components of SSD:

- **Perception-Reaction Distance (PRD):** The distance traveled during the time it takes for the driver to perceive a hazard and initiate a braking response. The standard perception-reaction time is generally considered to be 2.5 seconds.
- **Braking Distance (BD):** The distance required to stop the vehicle once the brakes are applied. This distance depends on the vehicle's speed, the road's grade, and the coefficient of friction between the tires and the road surface.

SSD=V×tr+V22×g×f\text{SSD} = V \times t_r + \frac{V^2}{2 \times g \times f}SSD=V×tr +2×g×fV2

where:

- VVV = initial speed of the vehicle
- trt_rtr = perception-reaction time
- ggg = acceleration due to gravity
- fff = coefficient of friction between the road and tires

2. Passing Sight Distance (PSD)

Passing Sight Distance is the minimum distance required for a driver to safely overtake another vehicle without causing a hazard to oncoming traffic. This distance ensures that the overtaking maneuver can be completed safely with clear visibility of the road ahead.

3. Decision Sight Distance (DSD)

Decision Sight Distance is the distance required for a driver to detect an unexpected or complex situation, recognize the need for a response, select an appropriate response, and complete the maneuver safely. This distance is generally longer than the stopping sight distance because it accounts for more complex decision-making processes.

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4. Intersection Sight Distance (ISD)

Intersection Sight Distance is the distance required at intersections to ensure that drivers have a clear view of oncoming traffic from all directions, allowing them to proceed safely through the intersection.

5. Horizontal Sight Distance

Horizontal Sight Distance pertains to the visibility around curves on a horizontal plane. It ensures that drivers can see far enough ahead around curves to react to obstacles or changes in the road alignment.

6. Vertical Sight Distance

Vertical Sight Distance pertains to the visibility over the crest of hills. It ensures that drivers can see far enough over the crest to react to obstacles or changes in the road alignment on the other side.

Each type of sight distance is essential for different driving scenarios and ensures that roads are designed to allow for safe and efficient traffic flow. Proper calculation and implementation of these sight distances help in reducing accidents and improving overall road safety.

Q.2 PIEV Theory

1. Perception

Perception is the initial phase in which the driver becomes aware of a stimulus or hazard. This could be anything from a traffic signal, a pedestrian, another vehicle, or an obstacle on the road. During this phase, the driver's sensory organs, primarily sight, detect the stimulus. The time taken for perception can vary based on factors such as visibility, driver's alertness, and the complexity of the driving environment.

2. Intellection

Intellection is the cognitive process where the driver interprets and understands the perceived stimulus. It involves analyzing the situation, identifying the nature of the hazard, and comprehending the potential risks involved. This phase requires mental processing and can be influenced by the driver's experience, knowledge, and familiarity with the road conditions.

3. Emotion

Emotion refers to the driver's emotional response to the perceived and understood stimulus. This phase involves the driver's psychological state, which can influence the decision-making process. Emotions such as fear, panic, stress, or even overconfidence can affect how quickly and effectively the driver reacts. A calm and experienced driver might handle the situation better than a novice or anxious driver.

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4. Volition

Volition is the decision-making and action phase where the driver decides on and executes a response to the hazard. This could involve braking, steering, accelerating, or other maneuvers to avoid a collision or navigate safely. The effectiveness of this response depends on the driver's physical abilities, reaction time, and the mechanical condition of the vehicle.

Factors Influencing PIEV

- **Driver's Age and Experience:** Younger or less experienced drivers might have slower perception and intellection phases compared to seasoned drivers.
- **Environmental Conditions:** Poor visibility due to fog, rain, or nighttime driving can affect the perception phase.
- **Vehicle Condition:** The mechanical condition of the vehicle, such as brake responsiveness and tire quality, influences the volition phase.
- **Distractions:** In-car distractions (e.g., mobile phones, passengers) can significantly delay the perception and intellection phases.

3. Classification Based on Function

a. Arterial Roads

- **Primary Arterial (Major Arterial):** These roads provide high-capacity urban and regional travel routes, connecting major cities, towns, and regions. They have limited access points and prioritize through traffic.
- **Secondary Arterial (Minor Arterial):** These roads provide service for moderate-length trips, connecting primary arterials with smaller urban centers and neighborhoods.

b. Collector Roads

- **Major Collector:** These roads gather traffic from local roads and funnel it to arterial roads. They serve intra-city travel and provide access to residential, commercial, and industrial areas.
- **Minor Collector:** These roads collect traffic from local streets and connect it to major collectors and arterial roads.

c. Local Roads

- **Urban Local Roads:** These roads provide direct access to residential, commercial, and industrial properties. They have low traffic volumes and speeds.
- **Rural Local Roads:** These roads serve rural areas, connecting individual properties and small communities to collector and arterial roads.

2. Classification Based on Design Standards

Design-based classification considers the road's construction and geometric features.

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area		1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area		1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area		1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping		1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level		1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building		1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity		1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect		1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these		1	1	
10	Residential building includes c) Bungalows b) Apartments d) Row Housings d) All of above		1	1	

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DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class – Second Year B. Tech Civil Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Date – 28 /02 /2024 Time – 02:00 pm to 02:30 pm

Name of Student: Roll No. PRN No.

Instructions: – 1. All questions are compulsory.
2. Write option of answer in Ans column

Answer Solution

Q. No	Question	Ans	CO	PO	Mks
1	_____ is the built-up covered area of a building measured at floor level of any story. a) Covered area b) Carpet area c) Total area d) Plinth area	D	1	1	
2	_____ area of a building is the area of verandahs, passage, corridors, balconies, porches, etc. a) Floor area b) Horizontal circulation area c) Vertical circulation area d) Verandah area	B	1	1	
3	_____ of building is the useful area or liveable area or lettable area. This is the total floor area minus the circulation area, verandahs, corridors, passages, staircase, lifts, entrance hall, etc. minus other non-useable areas. a) Plinth area b) Floor area c) Carpet area d) Circulation area	C	1	1	
4	The placing of various rooms or units of a structure in proper correlation of their functions and in due proximity with each other is known as _____ a) Aspect b) Prospect c) Circulation d) Grouping	D	1	1	
5	What is the level below window called? a) Pane level b) Lintel level c) Sill level d) Plinth level	C	1	1	
6	Which is not a type of building? a) Educational Building b) Mercantile Building c) Institutional Building d) Domestic building	D	1	1	
7	Which is not included in building codes? a) Mechanical integrity b) Safety c) Providing employment d) Structural integrity	C	1	1	
8	Which among the following is not a principle of planning?* a) Furniture requirements b) Aspect c) Prospect d) Respect	D	1	1	
9	Green building practices include a) Only energy efficiency. b) Only recycled materials c) Only Environmental Protection d) All of these	D	1	1	
10	Residential building excludes a) Bungalows b) Apartments b) Row Housings d) All of above	D	1	1	

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DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time – 10.40 am-11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular		2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level		2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame		2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing		2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above		2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level		3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)		3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight		3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight		3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m		3		1

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Model Answer Sheet

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C.A.2

Class – Second Year B. Tech Civil | Subject – Surveying (BTCVC305) | Marks -10

Date – 24/11/2023 | Time –10.40 am- 11.10 am

Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q. No	Question	Ans	CO	PO	Mks
1.	Plane table (PT) surveying is a _____ method. A) Graphical B) Linear C) Circular D) Angular	A	2		1
2.	A plumbing fork is used to _____ the plane table. A) Focus B) Centre C) Orient D) Level	B	2		1
3.	Which of the below is used for leveling a plane table? A) Plumb bob B) Spirit level C) Compass D) U-frame	B	2		1
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called A) radiation B) intersection C) resection D) traversing	B	2		1
5.	Three point problem can be solved by A) Tracing paper method B) Bessels method C) Lehman's method D) all of the above	D	2		1
6.	A 'level line' is a…….. A) horizontal line B) line parallel to the mean spheriodal surface of earth C) line passing through the centre of cross hairs and the centre of eye piece D) line passing through the objective lens and the eye-piece of a dumpy level	B	3		1
7.	For removing the parallax, A) the eye-piece should be focused for distinct vision of cross-hairs B) the image of the object should be brought in the plane of cross-hairs C) either (A) or (B) D) both (A) and (B)	D	3		1
8.	The following sights are taken on a "turning point" A) foresight only B) back sight only C) foresight and back sight D) foresight and intermediate sight	C	3		1
9.	The height of instrument is equal to A) R.L. of bench mark + back sight B) R.L. of bench mark + fore sight C) R.L. of bench mark + intermediate sight D) back sight + fore sight	A	3		1
10.	If the R.L. of a B.M. is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L. of the forward station is a) 99.345 m b) 100.345 m c) 100.655m d) 101.870m	A	3		1

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: III	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: S.Y.	**Time : 2.00pm-3.00pm**
DAY & DATE: FRIDAY 27/10/2023	**Marks: 20**
SUBJECT NAME WITH CODE: HYDRAULICS I	**BTCVC 304**

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	For an incompressible fluid does density vary with temperature and pressure? a) It varies for all temperature and pressure range b) It remains constant c) It varies only for lower values of temperature and pressure d) It varies only for higher values of temperature and pressure			BL1	1
	b.	The pressure at any given point of a non-moving fluid is called the _____ a) Gauge Pressure b) Atmospheric Pressure c) Differential Pressure d) Hydrostatic Pressure			BL2	1
	c.	Calculate the specific weight and weight of 20 m^3 of petrol of specific gravity 0.6. a) 5886,117.2 b) 5886,234.2 c) 11772,117.2 d) None of the mentioned			BL3	1
	d.	Whose pressure can be determined by the bourdon tube pressure gauge? a) Solids b) Fluids c) Only Gas d) Only liquids			BL4	1

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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

Class : _____

2.		**Solve Any Two Of The Following**				$3 \times 2 = 6$
	a.	Give classification of Fluid flows.			BL3	3
	b.	What are the types of fluids?			BL4	3
	c.	State and explain Pascal's law			BL5	3
3		**Solve Any two of the following**				$5 \times 2 = 10$
	a.	Derive Bernoulli's equation from Euler's equation .			BL5	5
	b.	Derive 3D Continuity equation			BL5	5
	c.	Calculate the capillary rise in a glass tube of 205 mm dia. when immersed vertically in a)water b) mercury take surface tension $\sigma = 0.0725$ N/M for water and $\sigma = 0.52$ N/M for mercury sp.gr. for mercury is 13.6 and angle of contact is 130_{o}•			BL6	5

********** END **********

HOLY- WOOD ACADEMY'S

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Dist. Kolhapur. Pin.416 201

Name of the Student : _____

Class : _____ Roll No. : _____

Subject : _____ Date : _____

Language of Answer _____

Question No.	1	2	3	4	5	6	7	8	9	10	Total	out of	Examiner's Sign.
Marks obtainted													

Main Answersheet + No. of Supplement = Total
01 + =

Supervisor's Signature

HYD - I. MSE

Answer key.

Q. 1] a] → d]

b] → a] True.

c] → a].

d] → b]

Q. 2] a] Classification of manometers

→ (1) Simple manometers.

(2) U Tube -

Differential Column Inverted. } 3 M.

b] Types of fluid.

→ Dia → 1 Mark

Real fluid

Ideal fluid

Ideal plastic

Newtonian fluid

Non newtonian fluid } 4 M.

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c] Pascal's law:-

Dia → 1 Mark.
Statement → 1 M.
Derivation → 2 M.

Q.B] Any two

a]. Dr Curved surface

Dia → 2 Mark.
Derivation - 3 M.

b] 3D Continuity eq?

→ Dia → 4 M.
→ Derivation 4 M.

$$\therefore \frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0,$$

c] Capillary Rise - $\frac{4\sigma\cos\theta}{\rho g d}$

=

Capillary fall - $\frac{4\sigma\cos\theta}{\rho g d}$

=

Civil Engineering
Sanjeevan Engineering & Technology Institute
Sheetal Peth, Panhala, Dist. Kolhapur, 416 201

	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: Final Year B. Tech.	**Time : 10.00am -11.00am**
DAY & DATE:	**Marks: 20**
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator and IS code are allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				**4×1 =4**
	a.	According to IS 456:2000 what is minimum eccentricity of the load applied to column A. 40 B. 20 C. 10 D 30	02			1
	b.	According to IS 456:2000 minimum number of longitudinal bar provided to circular column is A. 6 B. 8 C 10 D 4	02			1
	c.	According to IS 456:2000 minimum percentage of steel provided to column is A. 0.6 B. 0.8 C 1.0 D 0.4	02			1
	d.	A short RCC column is designed maximum permissible compressive stress in concrete A. 0.4 fck B. 0.44 fck C 0.67 fck D 1 fck	02			1
2.		**Solve Any Two Of The Following**				**3 ×2 = 6**
	a.	Explain the torsion acting on beam.	01			3
	b.	Explain longitudinal and transverse reinforcement for column.	02			3
	c.	What are the advantages of Prestress concrete structure	02			3
3		**Solve Any two of the following**				**5 ×2 = 10**
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.	03			5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter	02			5

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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

Answer Key

	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Civil Engineering
	Mid Semester Examination 2023
SEMESTER: VII	ACADEMIC YEAR: 2023-24
NAME Of STUDENT:	PRN.:
CLASS: Final Year B. Tech.	Time :
DAY & DATE: 12/10/2023	Marks: 20
SUBJECT NAME WITH CODE: Design of Reinf. & Prestressed concrete Structure	

Instructions to the Students:

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator and IS code are allowed

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following				4×1 =4
	a.					1
	b.	MCQ.				1
	c.	MCQ.				1
	d.	MCQ.				1
2.		Solve Any Two Of The Following				3 ×2 = 6
	a.	Explain the torsion acting on beam.				3
	b.	Explain longitudinal and transverse reinforcement for column.				3
	c.	What are the advantages of Prestress concrete structure				3
3		Solve Any two of the following				5 ×2 = 10
	a.	Prestress concrete beam of rectangular section 375 mm wide and 750 mm deep has a span of 1.25m. P = 1570 KN at an eccentricity of 150mm. D.L = 7 KN/m and LL = 12.5 KN/m. Determine Extreme fiber stresses in beam at mid span of beam.				5
	b.	Calculate load carrying capacity of column having b = 230 mm D = 450 mm. Six bars of 12 mm diameter are used as main steel. Use M20 concrete & Fe 415 steel.				5
	c.	A rectangular beam 300 mm wide & 500 mm effective depth. Beam carries factored BM 175 KN, factored Shear force 25 KN& torsional moment 10 KNm. Calculate equivalent bending moment.				5

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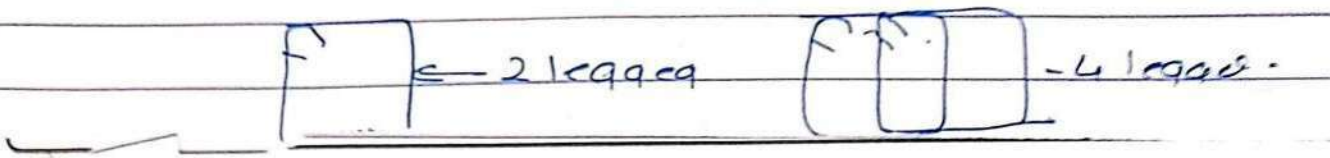
provided to support longitudinal steel. It also confines the concrete. It is in the forms of links. They may be 2 legged or 4 legged.



MID term from. (Answer key).
Design of Reinf & Prestressed concrete stru.

Q. 1.

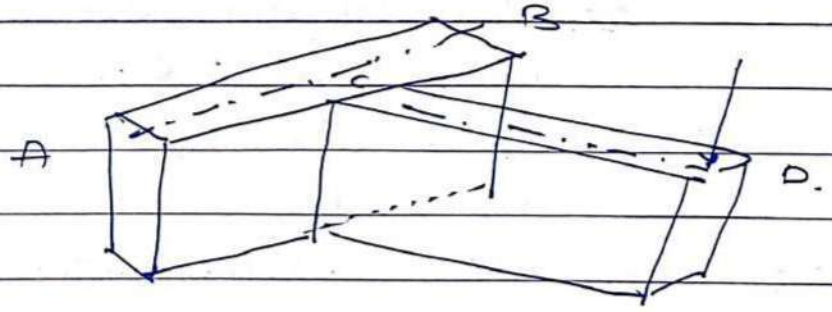
a.

b.

c.

d.

Q. 2) Explain torsion acting on beam.



When AB subjected to bending due to out of plane moment i.e. moment due to force on beam CD, Beam AB twisted about its longitudinal axis. this is called torsion, moment and force.

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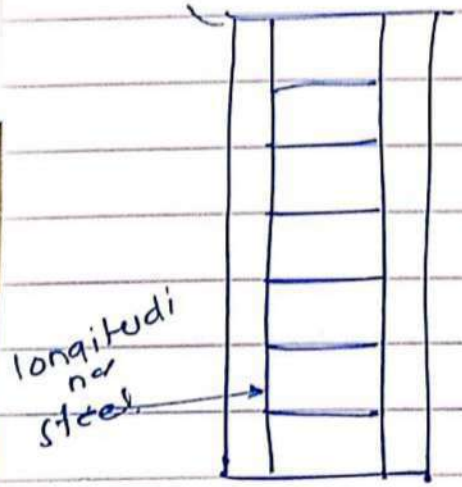
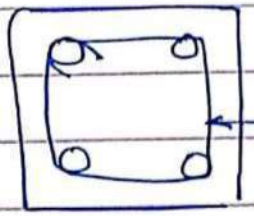
actig on beam is increased.

(b) Longitudinal & Transverse Reinf



Longitudinal steel is vertical steel present in column. This steel provided to take axial load on column. Min bar dia. of longitudinal steel is 12 mm. Min 0.8%. & max 6% steel is provided as a longitudinal steel.



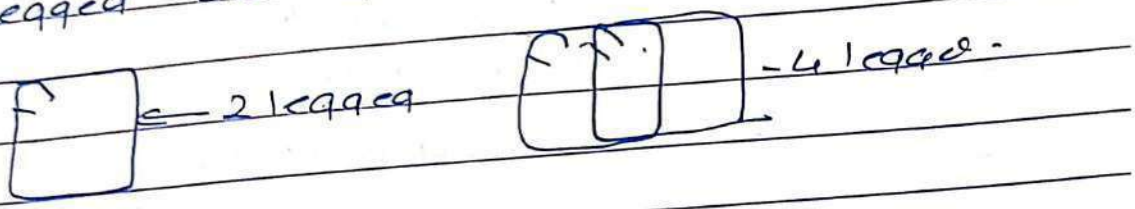
$\therefore P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$.

A_{st} in above eqn gives longitudinal steel.

Transverse steel

It is max steel

provided to support longitudinal strel. It also confines the concrete. It is in the forms of links. that may be 2 legged or 4 legged.



(c) Advantage of prestress concrete

(1) It can be provided for longer span without intermittent support
(2) It uses for grade concrete, so their is less shrinkge & creep of concrete
(3) It gives small sect^n as compared to that of R.C.C.
(4) fast construction
(5) savig in material due to slender section
(6) Bulk mfg is possible.

Q. 3

(a) $b = 375$ mm. $d = 750$ mm.
$P = 1570$ KN $L = 12.5$ m.
$e = 150$ mm. $LL = 12.5$ KN/m.
$f = ?$ $DL = 7$ KN/m

$$Z = \frac{bd^2}{6} = \frac{375 \times 750^2}{6} = 35.15 \times 10^6 \text{ mm}^3$$

$M_{DD} + M_L = 12.5 + 7 = 19.5$ KN/m

$$M = \frac{wL^2}{8} = \frac{19.5 \times 12.5^2}{8} = \frac{380.85}{\text{KN.m}}$$

$f = \frac{P}{A} \mp \frac{P \cdot e}{Z} \mp \frac{M}{Z}$

$= \frac{1540 \times 10^3}{275 \times 750} \mp \frac{1570 \times 10^3 \times 150}{35.15 \times 10^6}$

$\mp \frac{380.85 \times 10^6}{35.15 \times 10^6}$

$[f = 5.58 \mp 6.69 \mp 10.83]$

(b) L.C.C = ?

b = 230 mm

D = 450 mm

$Ast = 6 \times \frac{\pi}{4} (12)^2 = 678.67 \ mm^2$

$f_{ck} = 20 \ N/mm^2 \quad f_y = 415 \ N/mm^2$

Asl = 0.01 Ag. Ac = 0.99 Ag

$P_u = 0.4 f_{ck} A_c + 0.67 f_y A_{st}$

$= 0.4 \times 20 \times A_c + 0.67 \times 415 \times A_{sl}$

$= 0.4 \times 20 \times (230 \times 450 - 678.67)$

$+ 0.67 \times 415 \times 678.67$

$[P_u = 1011.28 \ kN]$

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Holywood Academy's
SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA
DEPARTMENT OF CIVIL ENGINEERING
C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular		1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above		1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.		1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law		1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point		1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere		1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous		1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area		1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm² D) Nmm		1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain		1	1	1

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Holywood Academy's
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DEPARTMENT OF CIVIL ENGINEERING

C.A.1

Class – Second Year B. Tech Civil Subject – Mechanics Of Solid (BTCVES302) Marks -10
Date – 26 /09 /2023 Time – 10.00 to 10.30am
Name of Student : Roll No. PRN No.

Instructions : – 1. All questions are compulsory. 2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

Q.No	Question	Ans	CO	PO	Mks
1.	The shape of the bending moment diagram over the length of a beam, carrying a uniformly distributed load is always A) Linear B) Parabolic C) Cubical D) Circular	B	1	1	1
2.	Strain is a _____ quantity. A) Scalar B) Vector C) Dimensionless D)None of the above	C	1	1	1
3.	Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as _____. A) Plasticity B) Undeformation C) Elasticity D) Hook's constant.	A	1	1	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known as _____ A) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law	B	1	1	1
5.	The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____ A) Elastic point B) Plastic point C) Breaking point D) Yielding point	D	1	1	1
6.	Where in the stress-strain curve, the hooke's law is valid? A) Strain hardening region B) Necking region C) Elastic range D) Valid everywhere	C	1	1	1
7.	If the material has identical elastic properties in all directions, it is called _____ A) Elastic B) Isotropic C) Plastic D) Homogeneous	B	1	1	1
8.	Does the value of stress in each section of a composite bar is constant or not A) It changes in a relationship with the other sections as well B) It changes with the total average length C) It is constant for every bar D) It is different in every bar in relation with the load applied and the cross sectional area	D	1	1	1
9.	What will be the unit of compressive stress? A) N B) N/mm C) N/mm² D) Nmm	C	1	1	1
10.	Modulus of Rigidity is A) Axial stress divided by axial strain B) Shear stress divided by shear strain C) Increase or decrease in volume divided by original volume D) Direct stress divided by volumetric strain	B	1	1	1

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DTE Code : ENG315

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AICTE ID : 1-9010451
AISHE Code : C-31348

HOLY-WOOD ACADEMY'S

SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Somwar Peth Jajole, Panhala, Tal. Panhala, Dist. Kolhapur. Pin- 416 201 (Maharashtra) Phone : 9146999500

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Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.

Academic Calendar for A.Y. 2023-2024 (Odd Semester)

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
AUGUST		1	2	3	4	5	6	0	4- Commencement meeting
	7	8	9	10	11	12	13	6	7- Reporting & Commencement of Classes, 7-12- FY Orientation
	14			17	18	19	20	3	15 - Independence Day,16 -Parsi New Year
	21	22	23	24	25	26	27	6	
	28	29	30	31				4	
SEPTEMBER					1	2	3	1	
	4	5	6	7	8	9	10	6	8,9 CA-1
	11	12	13	14	15	16	17	5	15- Engineer's Day Celebration
	18		20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet
	25	26	27		29	30		4	28- Eid-e-Milad
OCTOBER							1	0	
		3	4	5	6	7	8	4	02- Mahatma Gandhi Jayanti, 03-06- Mid Semester Exam.
	9	10	11	12	13	14	15	6	
	16	17	18	19	20	21	22	5	
	23		25	26	27	28	29	5	24-Dussehra
	30	31						2	
NOVEMBER			1	2	3	4	5	3	
	6	7	8	9	10	11		6	09,10-CA-2, 12- Laxmi Pujan
	13		15	16	17	18	19	4	14- Bali Pratipada
	20	21	22	23	24	25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM
		28	29	30				0	27- Guru Nanak Jayanti
DECEMBER					1	2	3	0	01-13 End Semester Examination
	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training
	11	12	13	14	15	16	17	0	
	18	19	20	21	22	23	24	0	
		26	27	28	29	30	31	0	25- Christmas
Govt. Holiday		CA/MSE/Pract. Exam/ESE						78	01st January 2024 Commencement of Classes for Next semester
Activities		Institute Holiday							

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each Department shall prepare their separate calendar to reflect departmental activities, Industrial Visits and Student Intrenships

Dean Academics

Principal

HOD

PRINCIPAL
Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201 (M.S.)

Department of Computer Science & Engineering
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

DTE Code : ENG315

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S

SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Somwar Peth Irjide, Panhala, Tal. Panhala, Dist. Kolhapur
Pin- 416 201 (Maharashtra) Phone : 9146999500

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DEPARTMENT OF COMPUTER SCIENCE & EINGINEERING

Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.

Academic Calendar for A.Y. 2023-2024 (Odd Semester)

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
AUGUST		1	2	3	4	5	6	0	4- Commencement meeting
	7	8	9	10	11	12	13	6	7- Reporting & Commencement of Classes, Training Programs for SY, TY & Final Year B. Tech
	14	[redacted]		17	18	19	20	3	15 - Independence Day,16 -Parsi New Year
	21	22	23	24	25	26	27	6	Alumni Meet
	28	29	30	31				4	
SEPTEMBER					1	2	3	1	
	4	5	6	7	8	9	10	6	
	11	12	13	14	15	16	17	5	CA I TY & Final Year ,15- Engineer's Day Celebration
	18	[redacted]	20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet
	25	26	27	[redacted]	29	30		4	28- Eid-e-Milad
OCTOBER							1	0	
	[redacted]	3	4	5	6	7	8	4	02- Mahatma Gandhi Jayanti
	9	10	11	12	13	14	15	6	Mid Sem Exam TY, Final Year
	16	17	18	19	20	21	22	5	
	23	[redacted]	25	26	27	28	29	5	24-Dussehra
	30	31						2	
NOVEMBER			1	2	3	4	5	3	Parents Meet
	6	7	8	9	10	11	[redacted]	6	09,10-CA-2, 12- Laxmi Pujan
	13	[redacted]	15	16	17	18	19	4	14- Bali Pratipada
	20	21	22	23	24	25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM
	[redacted]	28	29	30				0	27- Guru Nanak Jayanti
DECEMBER					1	2	3	0	01-13 End Semester Examination
	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training
	11	12	13	14	15	16	17	0	
	18	19	20	21	22	23	24	0	
	[redacted]	26	27	28	29	30	31	0	25- Christmas
Govt. Holiday	[redacted]	CA/MSE/Pract. Exam/ESE						78	01st January 2024 Commencement of Classes for Next semester
Activities		Institute Holiday					[redacted]		

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

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Prepared by | H.O.D.(CSE) | Dean Academics | Principal

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HOLYWOOD ACADEMY'S
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ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

DTE Code : EN6315

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AICTE ID : 1-8019451
AISHE Code : C-11165

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Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.

Academic Calendar for A.Y. 2023-2024 (Even Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
FEBRUARY				1	2	3	4	2	1- Commencement of Classes
	5	6	7	8	9	10	11	6	
	12	13	14	15	16	17	18	5	
	19	20	21	22	23	24	25	5	19- Chhatrapati Shivaji Maharaj Jayanti
	26	27	28	29				4	29-CA-01
MARCH					1	2	3	1	1-CA-01
	4	5	6	7	8	9	10	5	4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri
	11	12	13	14	15	16	17	5	
	18	19	20	21	22	23	24	6	23- Parikrama
	25	26	27	28	29	30	31	3	25-Dhulivandan, 29-Good Friday
APRIL	1	2	3	4	5	6	7	5	
	8	9	10	11	12	13	14	4	9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti
	15	16	17	18	19	20	21	5	17-Shri Ram Navami, 18-20- MSE, 21-Mahavir Jayanti
	22	23	24	25	26	27	28	6	
	29	30						2	
MAY			1	2	3	4	5	2	1-Maharashtra Din
	6	7	8	9	10	11	12	6	9&10 -CA-02
	13	14	15	16	17	18	19	5	
	20	21	22	23	24	25	26	5	23-Buddha Pounima, 25- End of Classes
	27	28	29	30	31				27-31- Practical Examination
JUNE						1	2		
	3	4	5	6	7	8	9		3-14- End Semester Exam.
	10	11	12	13	14	15	16		
	17	18	19	20	21	22	23		17- Bakri Id (Id-Ul-Zuha)
	24	25	26	27	28	29	30		
Govt. Holiday		CA/MSE/Pract. Exam/ESE						80	29 July - Result Declaration,
Activities		Institute Holiday							01 Aug- Commencement of Classes for Next Semester

Note: 1. The above dates are subject to change as per the guidelines of regulating authorities.

2. In align with this, each department shall prepare their departmental calendar to reflect departmental activities, Industrial Visits and Student Intrenships etc.

Dean Academic

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Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201 (M.S.)

Principal

HOD
Department of Computer Science & Engineering
Sanjeevan Engg. & Tech. Institute

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE PANHALA KOLHAPUR

DTE Code : EN6315

NAAC Accredited

HOLY WOOD ACADEMY'S

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ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Somwar Peth Injole, Panhala, Tal. Panhala, Dist. Kolhapur
Pin 416 201 (Maharashtra) Phone : 9146999500

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Academic Calendar for A.Y. 2023-2024 (Even Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
FEBRUARY				1	2	3		2	1- Commencement of Classes
	5	6	7	8	9	10		6	5-6 Traning Program for SY,TY,Final year
	12	13	14	15	16	17		5	
		20	21	22	23	24		5	19- Chhatrapati Shivaji Maharaj Jayanti
	26	27	28	29				4	29-CA-01
MARCH					1	2		1	1-CA-01
	4	5	6	7		9		5	4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri
	11	12	13	14	15	16		5	12- Guest Lecture on NCS , 23- Parikrama Technical Event
	18	19	20	21	22	23		6	25-Dhulivandan,
		26	27	28		30		3	, 29-Good Friday
APRIL	1	2	3	4	5	6		5	
	8		10		12	13		4	9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti
	15	16		18	19	20		5	17-Shri Ram Navami, 18-20- MSE, 21-Mahavir Jayanti
	22	23	24	25	26	27		6	27-Parents Meet, 28-Xpert Talk on Apportunities in IT
	29	30						2	30-Seminar on Research Methodology & Research Process
MAY				2	3	4		2	1-Maharashtra Din
	6	7	8	9	10	11		6	9&10-CA-02,20-Seminar on Importance of IPR
	13	14	15	16	17	18		5	22- Seminar on Research & Publication Ethics
	20	21	22		24	25		5	23-Buddha Pounima, 25- End of Classes
	27	28	29	30	31			5	27-31- Practical Examination
JUNE						1			
	3	4	5	6	7	8			3-14- End Semester Exam.
	10	11	12	13	14	15			
		18	19	20	21	22			17- Bakri Id (Id-Ul-Zuha)
	24	25	26	27	28	29			

Govt. Holiday		CA/MSE/Pract. Exam/ESE		85	29 July - Result Declaration,
Activities		Institute Holiday			01 Aug- Commencement of Classes for Next Semester

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each department shall prepare their departmental calendar to reflect departmental activities, Industrial Visits and Student Intrenships etc.

Prepared By | HOD(CSE) | Dean Academics | Principal

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DTE Code : EN6315

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AICTE ID : 1-8019451
AISHE Code : C-11165

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O Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

Date -26/02/2024

NOTICE

All the students of TY B tech (CSE department) are hereby inform that the **CA-I** is scheduled from 28/02/2024 to 1/03 /2024. The time table for exam is given below:

CA-I Schedule (TY) February 2024

Date	Time	TY B. Tech
28/02/2024	2.30 pm- 3.30pm	Compiler Design(MCQs)
28/02/2024	3.00pm to 3.30pm	Machine Learning(MCQs)
29/02/2024	9.10 am to 10.10 am 2.00pm to 3.00pm	Internet of Things (Oral)
29/02/2024	3.00pm to 3.30pm	Consumer Behavior(MCQs)
1/03 /2024	9.30 am to 10am	Computer Networks(Q&A)

Patil

Exam Coordinator

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE ★ PANHALA KOLHAPUR

H.O.D
Department of Computer Science & Engineering
Sanjeevan Engg. & Tech. Institute
Panhala - 416 201

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AISHE Code : C-11105

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Date : 7 /11 /23

NOTICE

All the students of **Second Year B.Tech(Div A & B)** are here by inform that **CA-II examination** is scheduled on 8/10/2023 to 10 /11 /23. The time table is given below :

CA-II Examination Schedule 2023

Date	Timing	Subjects(Div-A)	Subjects(Div-B)
8/11/23	2pm to 2.30 pm	Computer Organization and Architectur(MCQ+Assignment)	Object Oriented Programming in Java (Quiz)
	2.30pm to 3pm	Object Oriented Programming in Java (Quiz)	Computer Organization and Architectur(MCQ+Assignment)
9/11/23	9am to 11am	Data Structures (A DIV- Oral)	Data Structures (B DIV- Test)
	11 am onwards	Engineering Mathematics-III (Assignments)	Engineering Mathematics-III (Assignments)
10/11/23	9.30am to 10 am	Discrete Mathematics (Quiz)	Discrete Mathematics (Quiz)

Note: Attendance is mandatory.

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Mid Semester Examination Notice

Date 12/04/2024

All **B. Tech students** are informed that **Mid Semester Examination is scheduled from date 18 April to 20 April 2024.** The examination will be conducted through offline mode in institute. All must take a note.

The detailed schedule of examination will be shared soon. Students are directed to ensure their **presence fifteen minutes before** the commencement of the examination in the examination hall/room, failing to which they shall not be allowed to appear in the examination. No hearing shall take place in this matter if the student is disallowed for non compliance.

Examinations	Semester	Scheduled Examinations
Mid Semester Examination Summer 2024.	II, IV, VI & VIII	18 April to 20 April 2024

Important Instructions

1. Bring your Student ID. You will not be allowed into the exam hall without Student ID.
2. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
3. Make sure that No Institution dues/ Fees are pending before appearing examination.

Sr. No.	Details	Signature
1	HOD – Electrical Engg.	
2	HOD – Civil Engg.	
3	HOD – Computer Engg.	
4	HOD – Mechanical Engg.	
5	HOD - BSH	

Copy fwd. to:

1. All Heads of the departments, S.E.T.I. Panhala
2. All Department Exam coordinators, S.E.T.I. Panhala
3. Student notice board

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE EXAM SECTION PANHALA

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE PANHALA KOLHAPUR

P.12 Patil

HOD
Department of Computer Science & Engineering
Sanjeevan Engg. & Tech. Institute
Panhala

Academic Dean

12/4/24

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OOPJ - 1981

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.	
Sanjeevan Engineering & Technology Institute, Panhala.	
Department of Computer Science & Engineering	
Mid Semester Examination 2023	
SEMESTER: III	ACADEMIC YEAR: 2023-24
NAME Of STUDENT:	PRN.:
CLASS: S.Y. B.Tech	Time : 10.00 am To 11.00 am
DAY & DATE: Saturdday.28/10/2023	Marks: 20
SUBJECT NAME WITH CODE: BTCOL305,Object Oriented Programming in Java	

Instructions to the Students:

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator is allowed

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	JVM stands for_ a) JAVA Visualization Machine b) JAVA Versatility Machine c) JAVA Virtual Machine d) JAVA Variable Machine	1	1	BL 1	1
	b.	Which of the following are the Jump Statements used in JAVA a) if-else b) for loop c) break & continue d)switch-case	1	1	BL 1	1
	c.	Who will find the errors in programs ? a) Compiler b)Editor c)Class d)None of these	1	1	BL 1	1
	d.	int SY[ ]={12,23,25,36}; a) Single dimensional Array b) Two dimensional Array c) Three Dimensional Array d) None of these	1	1	BL 1	1
2.		**Solve Any Two Of The Following**				3 ×2 = 6
	a.	Explain the primitive data types used in JAVA	2	2	BL 2	3
	b.	What are the different operators used in JAVA	2	2	BL 1	3
	c.	What is Array and what are the types of Array	1	1	BL 1	3

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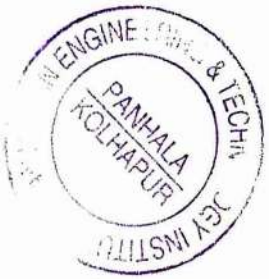
3		**Solve Any two of the following**				**5 ×2 = 10**
	a.	Problem Statement: Using Scanner Class, take the radius form the user at the run time and pass this radius while calling the method and display the area of a circle.	3	4	BL 3	5
	b.	Problem Statement: Using Scanner Class,take the length & breadth of a rectangle from the user at the run time and display the area of a rectangle.	3	4	BL 3	5
	c.	Problem Statement: Write a JAVA Program for the addition of TWO Matrices(2*2)	3	4	BL 3	5

********** END **********



CA-II: QUIZ on OOPJ Div-A & B

CA-II , Subject: OOPJ ,Class: S.Y.B.Tech Div-A & B ,A.Y. 2023-24, Date: 08/11/2023
Department of Computer Science & Engineering, Sanjeevan Engineering & Technology Institute,Panhala

Day & Date: wedensday , 08/11/2023

* Indicates required question

1. Email *

2. Name of Student *

3. Roll No. *

4. PRN: *

5. Division: * Dropdown

Mark only one oval.

- Div-A
- Div-B

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6. Constructor name must be the same as its class name * 1 point

Mark only one oval.

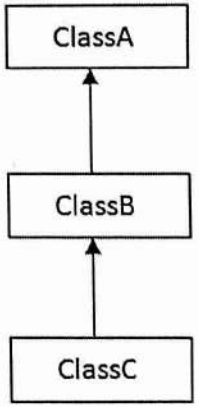
- True
- False

7. A Constructor should not have return type * 1 point

Mark only one oval.

- True
- False
- Can't say

8. Identify which type of Inheritance this diagram shows. * 1 point



Mark only one oval.

- Single Inheritance
- Multiple Inheritance
- Multilevel Inheritance
- Hyrarchical

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9. JAVA does not support * 1 point

Mark only one oval.

- Single Inheritance
- Multilevel Inheritance
- Hierarchical Inheritance
- Multiple Inheritance

10. class Dog extends Animal // in this syntax which class is subclass * 1 point

Mark only one oval.

- Dog
- main
- Animal
- extends

11. class student extends Sanjeevan // in this syntax which one is Base class * 1 point

Mark only one oval.

- student
- extends
- Sanjeevan
- main

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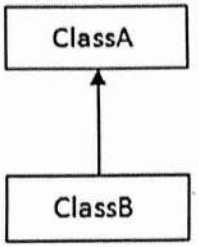
12. Identify which type of Inheritance it is. * 1 point



Mark only one oval.

- Single Inheritance
- Multilevel Inheritance
- Multiple Inheritance
- Hybrid Inheritance

13. multiple methods can have the same name with different parameters: * 1 point

Mark only one oval.

- It is in constructor method
- It is in method overloading
- Both a & b
- none

14. nextLine() * 1 point

Mark only one oval.

- Method of scanner for integer datatype input
- Method of scanner for float datatype input
- Method of scanner for Character datatype input
- Method of scanner for String datatype input

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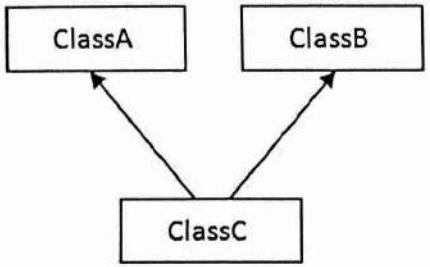
15. extends keyword in java is used for * 1 point

Mark only one oval.

- method overloading
- Inheritance
- constructor method
- none of these

16. Identify Which Type of Inheritance this is * 1 point



Mark only one oval.

- Single Inheritance
- Multilevel Inheritance
- Hierarchical Inheritance
- Multiple Inheritance

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CA-II
Answer Book

CA-II QUIZ on OOPJ Div-A & B

CA-II , Subject: OOPJ ,Class: S.Y.B.Tech Div-A & B ,A.Y. 2023-24, Date: 08/11/2023
Department of Computer Science & Engineering, Sanjeevan Engineering & Technology Institute,Panhala

Day & Date: wedensday , 08/11/2023

The respondent's email (**oulkarneha@gmail.com**) was recorded on submission of this form.

Name of Student *

Neha Namdev Oulkar

Roll No. *

46

PRN: *

2263151242117

Division: *

Div-A

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Constructor name must be the same as its class name * 1 point

- (●) True
- ( ) False

A Constructor should not have return type * 1 point

- (●) True
- ( ) False
- ( ) Can't say

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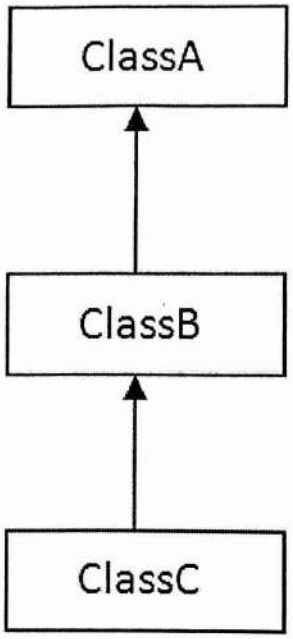
Identify which type of Inheritance this diagram shows. * 1 point



- ○ Single Inheritance
- ○ Multiple Inheritance
- ◉ Multilevel Inheritance
- ○ Hyrarchical

JAVA does not support * 1 point

- ○ Single Inheritance
- ○ Multilevel Inheritance
- ○ Hierarchical Inheritance
- ◉ Multiple Inheritance

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class Dog extends Animal // in this syntax which class is subclass * 1 point

- (●) Dog
- ( ) main
- ( ) Animal
- ( ) extends

class student extends Sanjeevan // in this syntax which one is Base class * 1 point

- ( ) student
- ( ) extends
- (●) Sanjeevan
- ( ) main

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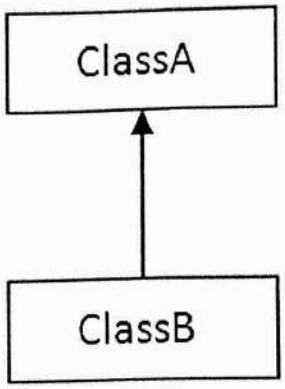
Identify which type of Inheritance it is. * 1 point



- (●) Single Inheritance
- ( ) Multilevel Inheritance
- ( ) Multiple Inheritance
- ( ) Hybrid Inheritance

multiple methods can have the same name with different parameters: * 1 point

- ( ) It is in constructor method
- (●) It is in method overloading
- ( ) Both a & b
- ( ) none

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	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Computer Science & Engineering
	MODEL ANSWER SHEET :Mid Semester Examination 2023

SEMESTER: III	**ACADEMIC YEAR:** 2023-24
NAME Of STUDENT:	**PRN.:**
CLASS: S.Y. B.Tech	**Time : 10.00 am To 11.00 am**
DAY & DATE: Saturdday.28/10/2023	**Marks: 20**
SUBJECT NAME WITH CODE: BTCOL305,Object Oriented Programming in Java	

Instructions to the Students:

1.All questions are compulsory
2.Assume suitable data if necessary
3.Use of non-programmable calculator is allowed

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	JVM stands for_ a) JAVA Visualization Machine b) JAVA Versatility Machine **c) JAVA Virtual Machine** d) JAVA Variable Machine	1	1	BL 1	1
	b.	Which of the following are the Jump Statements used in JAVA a) if-else b) for loop **c)break & continue** d)switch-case	1	1	BL 1	1
	c.	Who will find the errors in programs ? **a) Compiler** b)Editor c)Class d)None of these	1	1	BL 1	1
	d.	int SY[ ]={12,23,25,36}; **a) Single dimensional Array** b) Two dimensional Array c) Three Dimensional Array d) None of these	1	1	BL 1	1
2.		**Solve Any Two Of The Following**				3 ×2 = 6
	a.	Explain the primitive data types used in JAVA Primitive Data types in JAVA 1.Byte : 1 byte 2.Boolean : 1 bit 3.Integer-4 byte 4.Short 2 byte 5Long 8 byte 6.Float : 4 byte 7Double:8 byte 8. char 2 byte ….any 6 data type with default size each 2 get one	2	2	BL 2	3

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		mark any two data type with default size------1 Mark				
	b.	What are the different operators used in JAVA Explanation:Operators in Java **Operator** in JAVA is a symbol that is used to perform operations. Java Operators:Operators are used to perform operations on variables and values. Java divides the operators into the following groups: • Arithmetic operators :+,-,*,/.% • Assignment operators := .+=,-=,*=,/= • Comparison operators:==, <,>,<=,>= • Logical operators: Logical AND, Logical OR • Bitwise operators Each operator with example----------1 Mark Any three operators with example carries 3 Marks	2	2	BL 1	3
	c.	What is Array and what are the types of Array Explanation:Java Arrays: Arrays are used to store multiple values in a single variable, instead of declaring separate variables for each value. To declare an array, define the variable type with square brackets: Array Declaration and initialization ----1 Mark Accessing the elements of array --------1 Mark Types of Array a) Single Dimensional b)Multidimensional array----------1 Mark	1	1	BL 1	3
3		**Solve Any two of the following**				**5 ×2 = 10**
	a.	Problem Statement: Using Scanner Class, take the radius form the user at the run time and pass this radius while calling the method and display the area of a circle. Explanation: import java.util.Scanner; class sanjeevan	3	4	BL 3	5

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Somwar Peth, Panhala - 416 201

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE * PANHALA KOLHAPUR

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		{
		public static void circle(int r)
		{
		System.out.println("The Area of Circle="+(3.14*r*r));
		}
		public static void main(String args[])
		{
		Scanner seti=new Scanner(System.in);
		System.out.println("Enter the Radius");
		int r=seti.nextInt();
		circle(r);
		}
		}
		-------with correct syntax ------5 Marks				

	b.	Problem Statement: Using Scanner Class,take the length & breadth of a rectangle from the user at the run time and display the area of a rectangle.
		
		Solution:
		class Sanjeevan
		{
		public static void main(String args[])
		{
		Scanner seti=new Scanner(System.in);
		System.out.println("Enter Length");
		int L=seti.nextInt();
		System.out.println("Enter Breadth");
		int B=seti.nextInt();
		System.out.println("Area of Rectangle="+(L*B));
		}
		}
		-------with correct syntax ------5 Marks
			3	4	BL 3	5

	c.	Problem Statement: Write a JAVA Program for the addition of TWO Matrices(2*2)
		
		Solution:
		class Sanjeevan
		{
		public static void main(String args[])
		{
		int a[][]={{11,22},{44,55}};
		int b[][]={{4,5},{6,7}};
		for(int i=0;i<=1;i++)
		{
		for(int j=0;j<=1;j++)
		{
		System.out.print(a[i][j]+b[i][j]+" ");
			3	4	BL 3	5

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		} System.out.println(); } } } -------with correct syntax ------5 Marks				

********** END **********

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Attendance sheet CA-I : Quiz , Sub: OOPJ, SY B.Tech, Sem:III, A.Y.2023-24 ,Date:12/10/2023

Timestamp	Email Address	Score	Name of Student	Roll No.	PRN:	Division:
12/10/2023 11:55:19	ajinkyagawali12@gmail.com	34 / 35	Ajinkya Shivprasad Gawali	8	2263151242061	Div-B
12/10/2023 11:57:43	oulkarneha@gmail.com	31 / 35	Neha Namdev Oulkar	46	2263151242117	Div-A
12/10/2023 11:58:35	saratediksha9@gmail.com	32 / 35	Sarate Diksha Dattatray	70	2263151242043	Div-A
12/10/2023 12:00:06	sudeshpatil888@gmail.com	33 / 35	Sudesh Dattatray Patil	61	2263151242050	Div-A
12/10/2023 12:00:11	prasannamali2489@gmail.com	32 / 35	Prasanna Nandkumar Mali	38	2263151242023	Div-A
12/10/2023 12:00:16	dheretejas5@gmail.com	34 / 35	Tejes Bhikaji Dhere	05	2263151242016	Div-B
12/10/2023 12:01:40	chinmaykarpe123@gmail.com	34 / 35	Chinmay Dattatray Karpe	17	2263151242086	Div-B
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12/10/2023 12:02:53	apekshabajage09@gmail.com	34 / 35	Apeksha Ananda Bajage	3	2263151242033	Div-A
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12/10/2023 12:12:40	omkarudale7@gmail.com	25 / 35	Omkar Rohit Udale	78	2263151242074	Div-A
12/10/2023 12:12:41	mrunalipatil9650@gmail.com	27 / 35	Mrunali appaso patil	57	23063151242521	Div-B
12/10/2023 12:12:48	sourabhpatil1745@gmail.com	28 / 35	Sourabh raosaheb patil	60	2263151242015	Div-A
12/10/2023 12:12:49	snehalpatil8095@gmail.com	18 / 35	Snehal Sunil Patil	59	2263151242090	Div-A
12/10/2023 12:12:55	sarthakpatil7249@gmail.com	20 / 35	Sarthak Raosaheb Golde	10	2263151242014	Div-B
12/10/2023 12:13:09	rushikeshpatil9952@gmail.com	30 / 35	Patil Rushikesh Rajaram	61	2363151242510	Div-B
12/10/2023 12:13:25	vidyadharkamble6@gmail.com	18 / 35	Vidyadhar Shankar Kamble	14	2263151242123	Div-B
12/10/2023 12:14:07	ankushmane6006@gmail.com	32 / 35	Mane Ankush Anil	52	2363151242502	Div-B
12/10/2023 12:14:56	sahilpatil1434@gmail.com	26 / 35	Sahil Dashrath Patil	65	2363151242501	Div-B
12/10/2023 12:15:09	shubhushinde1024@gmail.com	20 / 35	Shubham shinde	35	2263151242124	Div-B
12/10/2023 13:36:52	yprachi933@gmail.com	28 / 35	Prachi Milind Yadav	60	23063151242524	Div-B

Subject Incharge

S.A. Babar

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE
PANHALA
KOLHAPUR

H.O.D.

HOD
Department of Computer Science & Engineering
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

HOLY-WOOD ACADEMY'S

SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Somwar Peth-Intole, Panhala, Tal. Panhala, Dist. Kolhapur Pin: 416 201 (Maharashtra) Phone : 9146999500

DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

○ Approved By AICTE, New Delhi ○ Recognized by
○ Permanent Affiliation by Dr. Babasaheb Ambedkar T

Vision- To be the institution of excellence by imparting quality educ transforming students into competent professionals with societal relevance.

Academic Calendar for A.Y. 2023-2024 (Odd Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
AUGUST		1	2	3	4	5	6	0	4- Commencement meeting
	7	8	9	10	11	12	13	6	7- Reporting & Commencement of Classes, 7-12- FY Orientation
	14	15	16	17	18	19	20	3	15 - Independence Day,16 -Parsi New Year
	21	22	23	24	25	26	27	6	
	28	29	30	31				4	
SEPTEMBER					1	2	3	1	
	4	5	6	7	8	9	10	6	8,9 CA-1
	11	12	13	14	15	16	17	5	15- Engineer's Day Celebration
	18	19	20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet
	25	26	27	28	29	30		4	28- Eid-e-Milad
OCTOBER							1	0	
	2	3	4	5	6	7	8	4	02- Mahatma Gandhi Jayanti, 03-06- Mid Semester Exam.
	9	10	11	12	13	14	15	6	
	16	17	18	19	20	21	22	5	
	23	24	25	26	27	28	29	5	24-Dussehra
	30	31						2	
NOVEMBER			1	2	3	4	5	3	
	6	7	8	9	10	11	12	6	09 10-CA-2, 12- Laxmi Pujan
	13	14	15	16	17	18	19	4	14- Bali Pratipada
	20	21	22	23	24	25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM
	27	28	29	30				0	27- Guru Nanak Jayanti
DECEMBER					1	2	3	0	01-13 End Semester Examination
	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training
	11	12	13	14	15	16	17	0	
	18	19	20	21	22	23	24	0	
	25	26	27	28	29	30	31	0	25- Christmas
Govt. Holiday		CA/MSE/Pract. Exam/ESE						78	01st January 2024 Commencement of Classes for Next semester
Activities		Institute Holiday							

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each Department shall prepare their separate calendar to reflect departmental activities, Industrial Visits and Student Intrenship.

Dean Academics

Principal

DTE Code : ENGB15

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Academic Calendar for A.Y. 2023-2024 (Even Semester)

Month	MON	TUE	WED	THUR	FRI	SAT	SUN	working days	Events
FEBRUARY				1	2	3		2	1- Commencement of Classes
	5	6	7	8	9	10		6	
	12	13	14	15	16	17		5	
		20	21	22	23	24		5	19- Chhatrapati Shivaji Maharaj Jayanti
	26	27	28	29				4	29-CA-01
MARCH					1	2		1	1-CA-01
	4	5	6	7		9		5	4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri
	11	12	13	14	15	16		5	
	18	19	20	21	22	23		6	23- Parikrama
		26	27	28		30		3	25-Dhulivandan, 29-Good Friday
APRIL	1	2	3	4	5	6		5	
	8		10		12	13		4	9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti
	15	16		18	19	20		5	17-Shri Ram Navami, 18-20- MSE, 21-Mahavir Jayanti
	22	23	24	25	26	27		6	
	29	30						2	
MAY				2	3	4		2	1-Maharashtra Din
	6	7	8	9	10	11		6	9&10 -CA-02
	13	14	15	16	17	18		5	
	20	21	22		24	25		5	23-Buddha Pounima, 25- End of Classes
	27	28	29	30	31				27-31- Practical Examination
JUNE						1			
	3	4	5	6	7	8			3-14- End Semester Exam.
	10	11	12	13	14	15			
		18	19	20	21	22			17- Bakri Id (Id-Ul-Zuha)
	24	25	26	27	28	29			
Govt. Holiday		CA/MSE/Pract. Exam/ESE						80	29 July - Result Declaration, 01 Aug- Commencement of Classes for Next Semester
Activities		Institute Holiday							

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each department shall prepare their departmental calendar to reflect departmental .....activities, Industrial Visits and Student Intrenships etc.

Dean Academics

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Department of Mechanical Engineering

Date: 15th Sept. 2023

Time - Table

CA-I Examination (AY: 2023-24, Odd Semester)

Date	Time	Class / Subjects		
		S. Y.	T. Y.	B. Tech.
26/09/2023	09:30 am to 10:00 am	Engineering Mathematics – III	Heat Transfer	Mechatronics
	10:30 am to 11:00 am	Fluid Mechanics	Machine Design – I	Industrial Engineering and Management
	11:30 am to 12:00 pm	Thermodynamics	Theory of Machines- II	Advanced IC Engines
	12:30 pm to 01:00 pm	Materials Science and Metallurgy	Automobile Engineering	Plant Maintenance
	02:30 pm to 03:00 pm	-	Human Resource Management	Intellectual Property Rights
	03:30 pm to 04:00 pm	-	Applied Thermodynamics	-

Prof. S. B. Deshmukh
Examination Incharge

Dr. V. H. Deokar
Head of Department

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

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Prof. S. B. Deshmukh
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Dr. V. H. Deokar
Head of Department

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Somwar Peth, Panhala - 416 201

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Holy-wood Academy, Kolhapur

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA.

MID SEMESTER EXAMINATION TIME TABLE - October-2023

A.Y. 2023-24

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday, 26/10/2023	10.00 am To 11.00am	Computer	SY	BTBS301	Engineering Mathematics –III
		Civil	SY	BTBS301	Mathematics – III
		Electrical	SY	BTBS301	Engineering Mathematics-III
		Mechanical	SY	BTBS301	Engineering Mathematics III
		First Year	All Div	BTBS101	Engineering Mathematics - I
	02.30 pm To 03.30 pm	Computer	SY	BTCOC302	Discrete Mathematics
		Civil	SY	BTCVES302	Mechanics of Solids
		Electrical	SY	BTEEC302	Electrical Machines-I
		Mechanical	SY	BTMEC302	Fluid Mechanics
		First Year	Div A & B	BTBS102	Engineering Physics
			Div C	BTBS102	Engineering Chemistry
Friday, 27/10/2023	10.00 am To 11.00am	Computer	SY	BTCOC303	Data Structures
		Civil	SY	BTCVC303	Building Construction & Drawing
		Electrical	SY	BTEEC303	Electrical & Electronics Measurement
		Mechanical	SY	BTMC303	Thermodynamics
		First Year	Div A & B	BTES103	Engineering Graphics
			Div C	BTES103	Engineering Mechanics
	02.00 pm To 03.00 pm	Computer	SY	BTCOC304	Computer Architecture & Organization
		Civil	SY	BTCVC304	Hydraulics -I
		Electrical	SY	BTES305	Engineering Material Science
		Mechanical	SY	BTMES304	Material Science & Metallurgy
		First Year	Div A & B	BTHM104	Communication Skills
			Div C	BTES104	Computer Programming in C
Saturday, 28/10/2023	10.00 am To 11.00am	Computer	SY	BTCOC305	(b) Object Oriented Programming in Java
		Civil	SY	BTCVC305	Surveying
		First Year	Div A & B	BTES105	Energy and Environment Engineering

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SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA.

MID TERM EXAMINATION - October-2023 TIME TABLE A.Y. 2023-24

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday 12/10/2023	10.00 am To 11.00am	Computer	TY	BTCOC501	Database Systems
			B.Tech	BTCOC701	Artificial Intelligence
		Civil	TY	BTCVC 501	Design of Steel Structures
			B.Tech	BTCVC701	Design of Concrete Structures - II
		Electrical	TY	BTEEC501	Power System Analysis
			B.Tech	BTEEC701	High Voltage Engineering
		Mechanical	TY	BTMC501	Heat Transfer
			B.Tech	BTMEC701	Mechatronics
	02.30 pm To 03.30 pm	Computer	TY	BTCOC502	Theory of Computation
			B.Tech	BTCOE702	Cloud Computing
		Civil	TY	BTCVC 502	Geotechnical Engineering
			B.Tech	BTCVC702	Infrastructure Engineering
		Electrical	TY	BTEEC502	Microprocessor and Microcontroller
			B.Tech	BTEEC702	Power System Operation & Control
		Mechanical	TY	BTMC502	Machine Design - I
			B.Tech	BTMEC702	Industrial Engineering and Management
Friday, 13/10/2023	10.00 am To 11.00am	Computer	TY	BTCOC503	Software Engineering
			B.Tech	BTCOE703	c) Big data Analytics
		Civil	TY	BTCVC 503	Structural Mechanics –II
			B.Tech	BTCVC703	Water Resources Engineering
		Electrical	TY	BTEEC503	Power Electronics
			B.Tech	BTEEOE703	Electrical Utilization
		Mechanical	TY	BTMC503	Theory of Machines -II
			B.Tech	BTMEC703D	Advanced IC Engines
	02.30 pm To 03.30 pm	Computer	TY	BTCOE504	a) Human Computer Intereaction
			B.Tech	BTCOE704	a) Cryptography and Network Security
		Civil	TY	BTCVC 504	Concrete Technology
			B.Tech	BTCVC704	Professional Practices
		Electrical	TY	BTEEPE504	(A) HVDC
			B.Tech	BTEEOE704	Mechantronics
		Mechanical	TY	BTAPE504D	Automobile Engineering
			B.Tech	BTMEC704C	Pant Maintenance
Saturday, 14/10/2023	10.00 am To 11.00am	Computer	TY	BTHM505	(b) Business Communication
			B.Tech	BTCOE705	b) Deep Learning
		Civil	TY	BTHM505	Project Management
			B.Tech	BTCVE705A	Construction Techniques
		Electrical	TY	BTEEOE505	(B) Electrical Safety
			B.Tech	BTEEOE705	Electric and Hybrid Electric vehicles
		Mechanical	TY	BTMOE505C	Human Resource Management
			B.Tech	BTMOE705C	Intellectual Property Rights
	02.30 pm To 03.30 pm	Civil	TY	BTCVPE506	Material, Testing and Evaluation
			B.Tech	BTCVOE706D	Introduction to Earthquake Engineering
		Mechanical	TY	BTMEC502	Applied Thermodynamics

Examination Coordinator

PRINCIPAL

Department of Mechanical Engineering

Time - Table

CA-II Examination (AY: 2023-24, Odd Semester)

Date	Time	Class / Subjects		
		S. Y.	T. Y.	B. Tech.
10/11/2023	09:30 am to 10:00 am	Engineering Mathematics – III	Heat Transfer	Mechatronics
	10:30 am to 11:00 am	Fluid Mechanics	Machine Design – I	Industrial Engineering and Management
	11:30 am to 12:00 pm	Thermodynamics	Theory of Machines- II	Advanced IC Engines
	12:30 pm to 01:00 pm	Materials Science and Metallurgy	Automobile Engineering	Plant Maintenance
	02:30 pm to 03:00 pm	-	Human Resource Management	Intellectual Property Rights
	03:30 pm to 04:00 pm	-	Applied Thermodynamics	-

Prof. S. B. Deshmukh
Examination Incharge

Dr. V. H. Deokar
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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

Department of Mechanical Engineering

Date: 26th Feb. 2024

Time - Table

CA-I Examination (AY: 2023-24, Even Semester)

Date	Time	Class / Subjects		
		S. Y.	T. Y.	B. Tech.
28/02/2024	02:30 pm to 03:00 pm	Manufacturing Processes – I	Manufacturing Processes- II	-
	03:30 pm to 04:00 pm	Theory of Machines-I	Machine Design-II	-
29/02/2024	02:30 pm to 03:00 pm	Basic Human Rights	Engineering Metrology and Quality Control	Fundamentals of Automotive Systems
	03:30 pm to 04:00 pm	Strength of Materials	Robotics	-
01/03/2024	09:30 am to 10:00 am	Numerical Methods in Engineering	Energy Conservation and Management	Non-Conventional Energy Resources

Prof. S. B. Deshmukh
Examination Incharge

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

Dr. V. H. Deokar
Head of Department

SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

MID TERM EXAMINATION - Summer 2024 TIME TABLE

Time	Branch Name	Class	Subject Code	Subject Name
9:30 am To 10:30am	Computer Sci. & Engg	SY	BTCOC401	Design and Analysis of Algorithm
		TY	BTCOC601	Compiler design
	Civil Engg	SY	BTCVC401	Building Planning and Drawing
		TY	BTCVC601	Design of RC Structures
		B.Tech	BTCVSS801D	Maintenance and Repair Of Concrete Structures
	Electrical Engg.	SY	BTEEC401	Network Theory
		TY	BTEEC601	Switchgear and Protection
	Mechanical Engg.	SY	BTMC401	Manufacturing process - I ✓
		TY	BTMC601	Manufacturing process - II ✓
		B.Tech	BTMEC801A	Fundamentals of Automotive systems ✓
12:30 pm To 01:30 pm	Computer Sci. & Engg	SY	BTCOC402	Operating System
		TY	BTCOC602	Computer Networks
	Civil Engg	SY	BTCVC402	Environmental Engineering
		TY	BTCVC602	Foundation Engineering
	Electrical Engg.	SY	BTEEC402	Power System
		TY	BTEEC602	Electrical Machine Design
	Mechanical Engg.	SY	BTMC402	Theory of emchines - I
		TY	BTMC602	Machine desgin - II ✓
3:30 pm to 4:30 pm	Computer Sci. & Engg	SY	BTHM403	Basic Human Rights
		TY	BTCOC603	Machine learning
	Civil Engg	SY	BTCVC403	Structural Mechanics - I
		TY	BTCVES603	Artificial Intelligence (NPTEL/SWAYAM)
		B.Tech	BTCVSS802C	Remote Sensing Essentials
	Electrical Engg.	SY	BTEEC403	Electrical Machine-II
		TY	BTEEC603	Control System Engineering
	Mechanical Engg.	SY	BTHM403	Basic Human Rights ✓
		TY	BTMPE603D	Elective - III (Engineering Metrology & quality control ✓
		B.Tech	BTMEC801F	Non conventional energy resources
9:30 am To 10:30am	Computer Sci. & Engg	SY	BTBSC404	Probability and statistics
		TY	BTCOE604	Elective - IV
	Civil Engg	SY	BTCVC404	Water Resources Engineering
		TY	BTCVC604	Transportation Engineering
	Electrical Engg.	SY	BTBS404	Analog and Digital Electronics
		TY	BTEEPE604	Group D - Smart Grid Technology
	Mechanical Engg.	SY	BTMES404	Strength of Materials
		TY	BTMPE604D	Elective - IV (Robotics) ✓
12:30 pm To 01:30 pm	Computer Sci. & Engg	SY	BTES405	Digital logic design & Microprocessors
		TY	BTHM605	Elective - V
	Civil Engg	SY	BTCVC405	Hydraulics - II
		TY	BTCVPE605	Industrial Waste Treatment
	Electrical Engg.	SY	BTEEPE405	Group A - Advance Renewable Energy Sources
		TY	BTEEOE605	Group E - Power Plant Engineering
	Mechanical Engg.	SY	BTMPE405A - C	Elective - I NM
		TY	BTMOE 605C	Open elective - II (Energy Conservation and Mgt.
3:30 pm to 4:30	Civil Engg	SY	BTCVC406	Engineering Geology
		TY	BTCVOE606	Basic Human Rights

EXAM SECTION PANHALA

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Department of Mechanical Engineering

Date: 11th May 2024

Time - Table

CA-II Examination (AY: 2023-24, Even Semester)

Date	Time	Class / Subjects		
		S. Y.	T. Y.	B. Tech.
13/05/2024	10:00 am to 10:30 am	Manufacturing Processes – I	Manufacturing Processes- II	Fundamentals of Automotive Systems
	12:00 pm to 12:30 pm	Theory of Machines-I	Machine Design-II	-
	03:00 pm to 03:30 pm	Basic Human Rights	Engineering Metrology and Quality Control	Non-Conventional Energy Resources
14/05/2024	10:00 am to 10:30 am	Strength of Materials	Robotics	-
	12:00 pm to 12:30 pm	Numerical Methods in Engineering	Energy Conservation and Management	-

Prof. S. B. Deshmukh
Examination Incharge

PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

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Head of Department

DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.

Sanjeevan Engineering & Technology Institute, Panhala.

Department of Mechanical Engineering

CA-I

semester: III	**ACADEMIC YEAR:**2023-24
NAME Of STUDENT:	**ROLL No.:**
CLASS:S.Y. B. Tech.	**MARKS:** 10
DAY & DATE: Monday, 26/09/2023	
SUBJECT: Fluid Mechanics (BTMC302)	

STRUCTIONS:

1. All questions are compulsory.
2. Circle the correct answer option for objective questions.

	Questions	CO	PO	BL	Marks
	Raindrops are spherical because of a) Viscosity b) Air resistance c) Surface tension force d) Atmospheric pressure	1	1	BL1	1
	The specific volume of a liquid is the reciprocal of a) weight density b) mass density c) specific weight d) specific	1	1	BL1	1
	Newton's law of viscosity is a relationship between, a) Pressure, velocity and temperature b) Shear stress and rate of shear strain c) Shear stress and velocity d) Rate of shear strain and temperature	1	1	BL1	1
	The ratio of absolute viscosity to mass density is known as, a) Specific viscosity b) Viscosity index c) Kinematic viscosity d) Coefficient of viscosity	1	1	BL1	1
	Meta-centric height is given as the distance between, a) The center of gravity of the body and the metacenter b) The center of gravity of the body and the center of buoyancy c) The center of gravity of the body and the center of pressure d) Center of buoyancy and metacenter	2	1	BL1	1

Q. No.	Questions	CO	PO	BL	Mark
6.	State Pascal's Law and buoyancy force	2	1	BL1	2
Ans					
7.	A plate 0.025 mm distance from a fixed plate, moves at 0.60 m/s and requires a force of 2 N per unit area to maintain this speed. Determine the fluid viscosity between the plates.	2	1	BL1	3
Ans					

********** END **********

	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Mechanical Engineering
	Mid Semester Examination 2023
SEMESTER: III	ACADEMIC YEAR: 2023-24
NAME Of STUDENT:	PRN.:
CLASS: S.Y	Time : 2.30 pm to 3.30 pm
DAY & DATE: Thursday,26/10/2023	Marks: 20
SUBJECT NAME WITH CODE: Fluid Mechanics –BTMC302	

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		**Attempt the Following**				4×1 =4
	a.	The flow in a pipe is laminar when Reynolds number is (a) less than 2000 (b) between 2000 and 4000 (c) more than 4000 (d) none of these	2	4	1	1
	b.	The flow in which conditions do not change with time at any point is known as (a) 1-D flow (b) steady flow (c) streamline flow (d) uniform flow	2	1	1	1
	c.	Which of the following assumption is true about Bernoulli's equation (a) Flow is steady and irrotational (b) Flow is incompressible and non viscous (c) Flow is continuous and homogeneous with uniform velocity. (d) All of the above	3	1	3	1
	d.	The discharge velocity in the orifice meter is measured by using which of the following? (a) Rotameter (b) Venturimeter (c) Pitot tube (d) Elbow meter	3	1	2	1
2.		**Solve Any Two of The Following**				3 ×2 = 6
	a.	Explain concept of Velocity potential function and stream function.	2	2	2	3
	b.	Write a short note on major and minor losses.	3	1	1	3
	c.	Explain Reynold's experiment.	3	4	4	3
3		**Solve Any two of the following**				5 ×2 = 10
	a.	Derive Expression for Venturimeter.	2	2	4	5
	b.	Derive three dimensional continuity equation.	2	3	6	5
	c.	Derive expression for head loss due to friction during flow through pipe.	3	2	1	5

	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala.
	Department of Mechanical Engineering
	Continuous Assessment- II 2023
	SEMESTER: III — **ACADEMIC YEAR: 2023-24**
	NAME Of STUDENT: — **PRN.:**
	CLASS: S.Y. B. Tech. — **Time :**
	DAY & DATE: 10/11/2023 — **Marks: 20**
	SUBJECT NAME WITH CODE: Thermodynamics BTMC303

Instructions to the Students:

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

Que.	Sub Que.	Question	CO	PO	BL	Mar
1.		**Attempt the Following** 4×1 =4				
	a.	An air-conditioner provides 1 kg/s of air at 15°C cooled from outside atmospheric air at 35°C. Estimate the amount of power needed to operate the air-conditioner. a) 1.09 kW b) 1.19 kW c) 1.29 kW d) 1.39 kW	3	1	2	1
	b.	A cyclic machine, as shown below, receives 325 kJ from a 1000 K energy reservoir. It rejects 125 kJ to a 400 K energy reservoir and the cycle produces 200kJ of work as output. Is this cycle reversible, irreversible, or impossible? a) reversible b) irreversible c) impossible d) none of the mentioned	3	1	2	1
	c.	A car engine operates with a thermal efficiency of 35%. Assume the air-conditioner has a coefficient of performance of 3 working as a refrigerator cooling the inside using engine shaft work to drive it. How much fuel energy should be spend extra to remove 1 kJ from the inside? a) 0.752 kJ b) 0.952 kJ c) 0.852 kJ d) none of the mentioned	3	1	1	1
	d.	What is the name of the graph that is drawn, when the temperature is kept constant? a) Isotherm b) Isochoric and isobar c) Isochoric d) Isobar	3	1	2	1
		Attempt The Following 3×2 = 6				
	a.	State and explain Boyle's Law.	4	2	2	3

	b.	Determine the pressure change when a constant volume of gas at 2.00 atm is heated from 30.0 °C to 40.0 °C.	4	2	1	i

********** END **********

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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Technology Institute, Panhala
	Department of Mechanical Engineering
	CA-I
	SEMESTER: IV **ACADEMIC YEAR:** 2023-24
	NAME OF STUDENT: **ROLL No.:**
	CLASS: S.Y. **MARKS:** 10
	DAY & DATE : Wednesday, 28/02/2024
	SUBJECT: Manufacturing Processes – I

INSTRUCTIONS:

1. All questions are compulsory.
2. Q.No. 1 to Q. No. 5 are objective (1marks each) and Q.No.7 descriptive (2 marks) & Q.No.8 descriptive (3 marks)
3. Circle on the correct answer for objective questions. Multiple circles or ticks are not allowed and considered as zero mark.

	Questions	CO	PO	Examiner Marks
1.	**Mechanization can be the reason for creativity and involvement in working for the production of castings.** a) True b) False	CO1	PO5	
2.	**Loam sand comprises of .....** a.50% sand and 10% moisture b.40% clay and 10% moisture c.50% clay and 18% moisture d.80% clay and 20% moisture	CO1	PO1	
3.	**Permeability of green sand _____** a) Increases with ramming b) Decreases with ramming c. Increase and decrease with ramming d) Does not alter with ramming	CO1	PO1	
4.	**Which of the following is not a limitation of wooden patterns?** a) Get abraded easily b) Absorb moisture c) Difficult machining d) Poor wear resistance	CO1	PO1	
5.	**Which of the following processes is known as fettling?** a) Cleaning of castings b) Pouring of melt into mould c) Releasing of gases from the melt d) Inclusion of slag in the castings	CO1	PO1	

Q. No.	Questions	CO	PO	Exam Mark
7.	**Que. Types of pattern.** Ans:	CO1	PO1	
8.	**Que. What is forming & explain Rolling Process.** Ans:	CO2	PO1	

********** END **********