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PRINCIPAL

Sanjeevan Engg. & Tech. Institute Somwar Petro

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O Approved By AR TH. New Itel

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

	Week Days							working days	Events	
ž	MON	TUE	WED	THUR	FRI	SAT	SUN		15 	
				1	2	3	4	2	1- Commencement of Classes	
ARY	5	6	7	8	9	10	11,	6		
FEBRUARY	12	13	14	15	16	17	18	5		
FEB	. D	20	21	22	23	24	25	5	19- Chhatrapati Shivaji Maharaj Jayanti	
	26	27	28	29				4	29-CA-01	
					1	2		1	1-CA-01	
Ξ	4	5	6	7	3	9	SIO:	5	4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri	
MARCH	11	12	13	14	15	16	157	5		
Σ	18	19	20	21	22	23	-	6	23- Parikrama	
	DSL-	26	27	28	129	30	Contraction of	3	25-Dhulivandan, 29-Good Friday	
	1	2	3	4	5	6	67	5		
,	8		10	1 m	12	13		4	9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti	
APRIL	15	16	- Th	18	19	20	-37	5	17-Shri Ram Navami, <mark>18-20- MSE</mark> , 21-Mahavir Jayanti	
F	22	23	24	25	26	27	2481	6		
	29	30			-	1		2		
-		+		2	3	4		2	1-Maharashtra Din	
	6	7	8	9	10	11	20.038	6	9&10 -CA-02	
MAY	13	14	15	16	17	18	19	5		
Z	20	21	22	1223	24	25	26	5	23-Buddha Pounima, 25- End of Classes	
	27	28	29	30	31	12			27-31- Practical Examination	
	1	T		1		1	1			
1000	3	4	5	6	7	B	100			
anin	10	11	12	13	14	, 15	1		— 3-14- End Semester Exam.	
-	17	18	3 19	20	21	22	- 24	-	17- Bakri Id (Id-Ul-Zuha)	
	24	25	5 26	27	28	29		10		
G	ovt. Holida	y	C	A/MSE/P	ract. Ex	am/E	SE	80	29 July - Result Declaration,	
	Activitie	es		1	nstitute	Holid	ay S		01 Aug- Commencement of Classes for Next Semester	

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

Dean Academics

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

Principal

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

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

Month			We	ek Day	s			working days	Events	
ž	MON	TUE	WED	THUR	FRI	SAT	SUN	Ň		
		1	2	3	4	5	6	0	4- Commencement meeting	
AUGUST	7	8	9	10	11	12	13	6	7- Reporting & Commencement of Classes, 7-12- FY Orientation	
19C	14	15	16	17	18	19	20	3	15 - Independence Day,16 -Parsi New Year	
Ν	21	22	23	24	25	26	27	6		
	28	29	30	31				4		
R					1	2	3	1		
IBE	4	5	6	7	8	9	10	6	8,9 CA-1	
EM	11	12	13	14	15	16	17	5	15- Engineer's Day Celebration	
SEPTEMBER	18	19	20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet	
SE	25	26	27	28	29	30		4	28- Eid-e-Milad	
							1	0		
R	2	3	4	5	6	7	8	4	02- Mahatma Gandhi Jayanti <mark>, 03-06- Mid Semester Exam.</mark>	
OCTOBER	9	10	11	12	13	14	15	6		
TC	16	17	18	19	20	21	22	5		
õ	23	24	25	26	27	28	29	5	24-Dussehra	
	30	31						2		
к			1	2	3	4	5	3		
BE	6	7	8	9	10	11	12	6	<mark>09,10-CA-2,</mark> 12- Laxmi Pujan	
EM	13	14	15	16	17	18	19	4	14- Bali Pratipada	
NOVEMBER	20	21	22	23	24	25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM	
Z	27	28	29	30				0	27- Guru Nanak Jayanti	
R					1	2	3	0	01-13 End Semester Examination	
BE	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training	
EM	11	12	13	14	15	16	17	0		
DECEMBER	18	19	20	21	22	23	24	0		
	25	26	27	28	29	30	31	0	25- Christmas	
	. Holiday	-	CA	/MSE/Pr		m/ESE toliday	10000	78	01st January 2024 Commencement of Classes for Next semester	

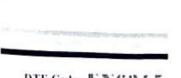
Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

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

**Dean Academics** 

Principal

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





DTE Code : EN6315

MAAC Accredited MCH ID : 1-5019451 MSHE Code : C-11165



HOLV-WOOD ACADEMY?

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

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 06<sup>th</sup> October, 2023 & 09<sup>th</sup> 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



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 MON 09.10.2023	02.15 PM to 02.45 PM	BTEEC303	Electrical & Electronics Measurement	
	03.30 PM to 04.00 PM	BTES305	Engineering Material Science	
	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

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: T. Y. B. Tech\_Sem - V Date: 04.10.2023 Name of Subject Subject Code Time Day & Date Microprocessor and Microcontroller BTEEC502 03.30 PM to 04.00 PM FRI -06.10.2023

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

Dr. D. S. Bhosale

Head of the Dopartment Electrical Sectors of 19 Surjeevin Depondent in 1993 Somwar Ports Administration



PRINCIPAL Sargeevan Erigg & tech Institute Jorrwar Peth, Fantiala - 415 201



DTE Code : EN6315



VAAC Accredited

AICTE ID : 1-5019451

AISHE Code : C-III65



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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 **10**<sup>th</sup> **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 Engineering Somwar Peth, Panhala - 410 101



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# 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	y & Date	Time	Subject Code	Name of Subject
	FRI	09.30 AM to 10.00 AM	BTBS301	Engineering Mathematics-III
10.	FRI 10.11.2023	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 Engineering Somwar Petri, Ponhala – Kid 201



PRINCIPAL Sanjeevan Engg. & Tech. Institute

Somwar Peth, Panhala - 416 201

	DEPARTMEN Continuous Asses TIME TABLE ( O - SANJEEVAN ENGINE	T OF ELECTRIC sment - 2 (CA dd Semester )	OGICAL UNIVERSITY, LONERE AL ENGINEERING 2) - November 2023 ) YEAR 2023 - 2024 INOLOGY INSTITUTE , PANHALA h_Sem - V Date: 08.11.2023
Day & Date	Time	Subject Code	Name of Subject
FRI	09.30 AM to 10.00 AM	BTEEC501	Power System Analysis
10.11.2023	11.30 AM to 12.00 AM	BTEEPE504A	HVDC

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

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

Head of the Department Blo Same



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

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

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

Head of the Department Electrical Engineering Sanjeevin Indel & Tech Inditute Somwar Peth, Panhaia - 416 201



anjeevan Engg. & Tech. Institute Shimwar Peth. Panhala - 416 201



DTE Code : ENG315



NAAC Accredited MCRE ID = 1-8019451 MSRE Code : C-11165



ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA
 Subjection Knewledge City, Semicula Paula Landa, Postora Est Armeda Rei a Paulate
 Pin-116 J01 (Malamedina) Phone: 9146999500

O Approved By AICTE: New Delha. A Recognized by Gost of Maharashtra & D4E O Permanent Affiliation by Dr. Babarashth Anibedkar. Technological University, Rangad

# 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 28<sup>th</sup> February, 2024 to 01<sup>st</sup> 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 <u>vishal.metkari@seti.edu.in</u> on or before Monday 26<sup>th</sup> February, 2024.

Departmental Éxam Co - ordinator Mr. V. T. Metkari

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



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 Exaln Co-Ordinator Mr. V. T. Metkari

H. O. D. Mr. V. T. Metkari Head of the Department Electrical Engineering Sonieevan 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 - 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	e Time	Subject Code	Name of Subject Switchgear Protection	
WED 28.02.2024	02.15 PM to 02.45 PM	BTEEC601		
	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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DTE Code : 1 56315



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AICTE ID 1-8019451 AISUE Code : C-11165



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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 9<sup>th</sup> May, 2024 to 10<sup>th</sup> 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

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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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#### DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

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
	12.30 PM to 01.00 PM	S.Y.	BTEEC401	Network Theory
		Т.Ү.	BTEEC601	Smart Grid Technology
Thursday	02.15 PM to 02.45 PM	S.Y.	BTEEC402	Power System
09.05.2024		Т.Ү.	BTEE0E605B	Power Plant Engineering
	03.30 PM to 04.00 PM	S.Y.	BTEEPE405C	Advance Renewable Energy Sources
		Т.Ү.	BTEEC602	Electrical Machine Design
	02.15 PM to 02.45 PM	S.Y.	BTEEC403	Electrical Machines-II
Friday	02.101.0002.401.0	Т.Ү.	BTEEC603	Control System Engineering
10.05.2024	03.15 PM to 03.45 PM	S.Y.	BTBS404	Analog and Digital Electronics
	03.13 FM 10 03.43 FM	Т.Ү.	BTEEPE604B	
	ntal Exam Co-Ordinator	Sanja Sanj	PRINCIPAL eevan Engg. & Tech. war Peth, Panhala -	Institute H.O.D.

Headrov. th Melkaci tment Electrical Engineering Sanjaevan Engg. & Toch, in stitute Sontwar Peth, Pachal-\* 11





AICTE /D : 1-80194 AICHE Code : C-11165 : 1-8019451



WOOD ACADEMAN

**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		
lid Semester Examination 2023		Scheduled Examinations	
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
- 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
- 6. Arrive at least 15 minutes before the exam is due to start and wait outside until you are allowed

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

**Examination Coordinator** 





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

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	S	ANJEEVAN ENG	Holy-wo INEERING	& TECHNOLOGY	INSTITUTE, PANHALA.			
1 CO	MID SEMESTER EXAMINATION TIME TABLE - October-2023							
Celling Trades				A.Y. 2023-24	and the second sec			
Day & Date	Time	Branch Name	Class	Subject Code	Subject Name			
		Computer	SY	BTBS301	Engineering Mathematics –III			
	10.00 am	Civil	SY	BTBS301	Mathematics – III			
	То	Electrical	SY	BTBS301	Engineering Mathematics-III			
	11.00am	Mechanical	SY	BTBS301	Engineering Mathematics III			
		First Year	All Div	BTBS101	Engineering Mathematics - I			
Thursday, 26/10/2023		Computer	SY	BTCOC302	Discrete Mathematics			
20/10/2023	02.30 pm To 03.30 pm	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			
		Flist fear	Div C	BTBS102	Engineering Chemistry			
	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			
	11.00am	First Year		BTES103	Engineering Graphics			
Friday,		riist real	Div C	BTES103	Engineering Mechanics			
27/10/2023		Computer	SY	BTCOC304	Computer Architecture & Organization			
	02.00 pm	Civil	SY	BTCVC304	Hydraulics -I			
1	То	Electrical	SY	BTES305	Engineering Material Science			
	03.00 pm	Mechanical	SY	BTMES304	Material Science & Metallurgy			
		First Year		BTHM104	Communication Skills			
	And the second second		Div C	BTES104	Computer Programming in C			
Saturday,	10.00 am	Computer	SY	BTCOC305	(b) Object Oriented Programming in Java			
28/10/2023	To	Civil	SY	BTCVC305	Surveying			
	11.00am	First Year	Div A & B	BTES105	Energy and Environment Engineering			



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

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



DTE Code : ENG315

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#### **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**

- 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.
- 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.
- 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.
- 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	9
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

Examination Coordinator





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

09/10/202

Date 10/09/2023

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CO T	5	SANTEEVAN ENG	INFERT	wood Academy, NG & TECHNOL(	DGY INSTITUTE, PANHALA.
R		MID TERM EX	MINATIC	N - October-2023	STIME TABLE A.Y. 2023-24 Subject Name
0 Data	Time	Branch Name	Class	Subject Code	000
ay & Date	Time		TY	BTCOC501	Database Systems
1		Computer	B.Tech	BTCOC701	Artificial Intelligence
			TY	BTCVC 501	Design of Steel Structures
	10.00 am	Civil	B.Tech	BTCVC701	Design of Concrete Structures - II
1	То		TY	BTEEC501	Power System Analysis
	11.00am	Electrical		BTEEC701	High Voltage Engineering
		Mashanical	TY	BTMC501	Heat Transfer
Thursday		Mechanical	B.Tech	BTMEC701	Mechatronics
2/10/2023		Ormandar	TY	BTCOC502	Theory of Computation
LITOLOULO		Computer		BTCOE702	Cloud Computing
		Civil	TY	BTCVC 502	Geotechnical Engineering Infrastructure Engineering
	02.30 pm	Civil		BTCVC702	Microprocessor and Microcontroller
	То	Electrical	TY	BTEEC502	Power System Operation & Control
	03.30 pm	Liectrical		BTEEC702	Machine Design - I
		Mechanical	TY	BTMC502	Industrial Engineering and Management
		Wicenamear	B.Tech	BTMEC702	
		Computer	TY	BTCOC503	Software Engineering
	10.00 am To 11.00am	Computer		BTCOE703	c) Big data Analytics Structural Mechanics –II
		am Civil	TY	BTCVC 503	Water Resources Engineering
		0.01		BTCVC703	Power Electronics
		1977	TY	BTEEC503 BTEEOE703	Electrical Utilization
			TY B. Tech	BTMC503	Theory of Machines -II
100000000000000000000000000000000000000		Mechanical		BTMEC703D	Advanced IC Engines
			and the local division in the local division	BTCOE504	a) Human Computer Intereaction
13/10/2023		Computer	TY	BTCOE704	a) Cryptography and Network Security
	1		TY	BTCVC 504	Concrete Technology
Friday, 13/10/2023	02.30 pm	Civil		BTCVC704	Professional Practices
	То		TY	BTEEPE504	(A) HVDC
	03.30 pm	Electrical		BTEEOE704	Mechantronics
			TY	BTAPE504D	Automobile Engineering
		Mechanical	B.Tech	BTMEC704C	Pant Maintenance
NAME OF TAXABLE PARTY.	all south and the		TY	BTHM505	(b) Business Communication
		Computer		BTCOE705	b) Deep Learning
			TY	BTHM505	Project Management
	10.00 am	Civil	B.Tech		Construction Techniques
	To	Floatriag	TY	BTEEOE505	(B) Electrical Safety
Saturday,	11.00am	Electrical	B.Tech	BTEEOE705	Electric and Hybrid Electric vehicles
14/10/2023		Manhandrad	TY	BTMOE505C	Human Resource Management
		Mechanical	B.Tech	BTMOE705C	Intellectual Property Rights
	02.30 pm		TY	BTCVPE506	Material, Testing and Evaluation
	То	Civil	B.Tech		Introduction to Earthquake Engineering
	03.30 pm	Mechanical	TY	BTMEC502	Applied Thermodynamics
				Cashing and a	Asan

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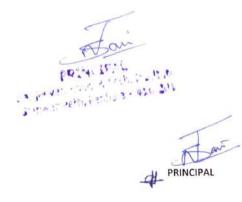
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Sr. No.	Dept	Name of Staff	Role	2010/01/11		ECOCIDIA	2	COCIONT	14/10/2023	
				10:00 to 11:00	2:30 to 3:30	10:00 to 11:00	2:30 to 3:30	10:00 to 11:00	2:30 to 3:30	Faculty sign
1		Mr. Hebale B S	Jr. Supervisor	1				1		learny
2	1	Vinayak	Jr. Supervisor		1		1	1		A
3	-	Mr. Naik Yogesh	Jr. Supervisor	1					1.0	Last
4		Mr. Nilesh Jadhav	Jr. Supervisor		Bi Juba		1		L. LATER	Som

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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. Toch 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

0	Question	Ans	CO	PO	Mk
- The	term is used to mean the free passage of clean air			Dell harrison	
l in a	structure.				
	rculation b) Ventilation		4	1	
	ssipation d) Condensation				
It is	quite evident that the incoming air for ventilation should be	-			
	_ in summer and in winter before it enters the				
roon			4	1 1 1 1	
	ol, warm b) warm, cool				
_ c) hu	mid, dry d) dry, humid				
In_	system, the use is made of doors, windows.				
vent	lators and skylights to make the room properly ventilated.				
a) Ar	tificial ventilation b) Natural ventilation		4	1	
c) Ai	conditioning d) Mechanical ventilation		1		
Exh	aust system, supply system, air conditioning, etc. comes				
unde	r type of ventilation system.				
a) Na			4	1	
	n made dh Doors				
One	pipe system is cheaper than the single stack system for the				
drain	age of buildings.		3 1	1	
a) Tru	b) False				
Which	pipe is mostly used for carrying cold water?				
	pper pipe b) Steel pipe		3	1	
c) PV(			5	T	
	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?				
c) Lig	able and corrosion free b) Durable and economical ht weight and economical d) Light weight & corrosion		3	1	
free	d) Light weight & corrosion		5	1	
-	building practices include				
a) On					
c) On	- · · · · · · · · · · · · · · · · · · ·		5	1	
Which			0	-	
a) To re	of the following is not the purpose of a green building?			[	-
	b) to minimize damage		5 t	VI	
<u>uj cj i</u>	d) None of the above		15	lan.	-
	VOE	PRI	TPA	C	
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ng a rechnology Institute Somwar Peth. Panhala, Dist. Kolhapur. (416 201) (Degree Engg.), Somwarpeth, Funda, Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)





# Holy-wood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

Class - Second Year B. Tech Civil Date - 10/05/2024 Name of Student:

Subject – Building Planning and Drawing (BTCVC 401) Marks -10 Time - 09:30 am to 10:00 am 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	Mk						
	The term is used to mean the free passage of clean air										
1	in a su ucture.	-									
	a) Circulation b) Ventilation	В	4	1							
	c) Dissipation										
	It is quite evident that the incoming air for ventilation should be										
	in summer and in winter before it enters the										
2	room.	A	4	1							
	a) cool, warm b) warm, cool		1	-							
3 4 4 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	c) humid, dry d) dry humid										
	In system, the use is made of doors, windows,										
3	ventilators and skylights to make the room properly ventilated.										
3	a) Artificial ventilation b) Natural ventilation	В	4	1							
	c) Air conditioning d) Mechanical ventilation										
	Exhaust system, supply system, air conditioning, etc. comes										
4	under type of ventilation system.	D									
	a) Natural b) Mechanical	В	4	1							
	c) Man made d) Doors										
	One pipe system is cheaper than the single stack system for the										
5	drainage of buildings.	В	3	1							
	a) True b) False										
in an	Which pipe is mostly used for carrying cold water?										
6	a) Copper pipe b) Steel pipe	С	3	1							
	c) PVC pipe d) Lead pipe										
_	Which pipe is used for carrying cold and hot water?										
7	a) Poly propylene b) Poly propylene random co-polymer	В	3	1							
	c) High density poly ethylene d) Low density poly ethylene										
	State the two advantages of PVC pipes?										
8	a) Durable and corrosion free b) Durable and economical	D	3	1							
	c) Light weight and economical d) Light weight & corrosion free			1.51							
	Green building practices include										
9	a) Only energy efficiency. b) Only recycled materials	D	5	1							
	of Only Environmental Protection di All of these		1	1							
10	Which of the following is not the purpose of a group little										
10	h lo minimize 1	D	-	, 1							
	c) Re-use of waste materials d) None of the above	D	5	11							

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	DR. BABASAHEB AMBEDKAR TECHS Sanjeevan Engineering & Techn	DIG BY				
	Department of Civil Engineering					
WHILE THE STATE	Mid Semester Exam	ACADEMIC YEAR: 2023-24				
	SEMESTER: IV					
woud Acaga	NAME OF STUDENT:	PRN.:				
130 0000	CLASS: Third Year B. Tech.	Time :				
- The state	DAV & DATE: Friday - 19 4124	Marks: 20				
The state state	SUBJECT NAME WITH CODE: Transport	ation 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	РО	BL 4×	1 =4
	Question	Attempt the Following	1		-	1
1	a.	The stopping sight distance does not depend on				
		<ul> <li>a) Break reaction time b) Visibility limit</li> <li>c) Head light distance d) Overtaking sight distance</li> </ul>	-			1
	b.	The camber required depends on a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall				
	с.	a) Temperature susceptibility b) Grade a) Viscosity d) Ductility				
21	d.	<ul> <li>c) viscosity</li> <li>The function of expansion joint in rigid pavement is</li> <li>a) Relieve wrapping stresses</li> <li>b) Relieve shrinkage stresses</li> <li>c) Resist stresses due to expansion</li> </ul>				
		d) Allow free expansion	_			
		The Following			3	$3 \times 2 = 6$
2.		Solve Any Two Of The Following	T	T	T	3
	a.	Write types of sight distances, in details.		_		
	b.	Write note on PIEV theory.				3
	с.	Explain in detail classification of road?				3

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		5 ×2	2 = 10
3	Solve Any two of the following		5
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.		2 197
<b>b</b> .	Draw the section of pavement and explain its elements	5	5
	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 perceptionreaction 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.

 $SSD=V\times tr+V22\times g\times f\setminus text\{SSD\} = V \setminus times t_r + \int (V^2) \{2 \setminus times g \setminus times f\} SSD=V\times tr + 2\times g\times fV2$ 

where:

1

- 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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# Holy-wcod Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 1 Subject – Building Planning and Drawing (BTCVC 401)

Class - Second Year B. Tech Civil Date - 28 /02 /2024 Name of Student:

Roll No.

PRN No.

Marks -10

Time - 02:00 pm to 02:30 pm

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

No	Question	Ans	co	PO	Mk
	is the built-up covered area of a building measured at				
	floor level of any story.		1	1	
1	a) Covered area b) Carpet area			510	
1 2 3 4 5 6 7 8	c) Total area d) Plinth area				
	area of a building is the area of verandahs,				
	passage corridors, balconies, porches, etc.		1	1	
2	a) Floor area b) Horizontal circulation area		-		
	c) Vertical circulation area d) Verandah area			-	
	of building is the useful area or liveable area or	6		1 1 1 1 1 1 1	
	lettable area. This is the total floor area minus the circulation				
GR I	area, verandahs, corridors, passages, staircase, lifts, entrance		1	1	
3	hall, etc. minus other non-useable areas.		-	÷	
	a) Plinth area b) Floor area				
	c) Carpet area d) Circulation area				
	The placing of various rooms or units of a structure in proper				
	correlation of their functions and in due proximity with each				
4	other is known as		1	1	
	a) Aspect b) Prospect				
	c) Circulation d) Grouping				
	What is the level below window called?				
5	a) Pane level b) Lintel level	1 1	1	1	
	c) Sill level d) Plinth level				
	Which is not a type of building?				
б	a) Educational Building b) Mercantile Building		1	1	
	c) Institutional Building d) Domestic building				
	Which is not included in building codes?				
7	a) Mechanical integrity b) Safety		1	1	
	c) Providing employment d) Structural integrity				
	Which among the following is not a principle of planning?*		-		
8	a) Furniture requirements b) Aspect		1	1	
	c) Prospect d) Respect		-	1	1
	Green building practices include		-		+
9	a) Only energy efficiency. b) Only recycled materials		1	1	
	c) Only Environmental Protection d) All of these		1	1	1
	Residential building includes		-	-	1-
10	c) Bungalows b) Apartments				
	d) Row Housings d) All of above		1	1	

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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 Date - 28 /02 /2024 Name of Student:

Subject – Building Planning and Drawing (BTCVC 401)

Time - 02:00 pm to 02:30 pm

Marks -10

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PRN No. Roll No.

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

#### **Answer Solution**

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	D	1	1	
	c) Total area d) Plinth area				
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	в	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	С	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 levelb) Lintel levelc) Sill leveld) Plinth level	с	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	с	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. c) Only Environmental Protection Basid	D	1	1	L
10	Residential building excludes         a) Bungalows       b) Apartments         b) Row Housings       d) All of above	D			

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject - Surveying (BTCVC305)

Marks -10 Time – 10.40 am-11.10 am

Class – Second Year B. Tech Civil Date – 24/11/2023 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.	Question	Ans	C0	PO	Mks
No 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.	1 C 1 - lines riors table?		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 byA) Tracing paper methodB) Bessels methodC) Lehman's methodD) all of the above		2		1
6.	A 'level line' is aA) horizontal lineB) line parallel to the mean spheriodal surface of earthC) line passing through the centre of cross hairs and the centre of eye pieceD) 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 onlyB) back sight onlyC) foresight and back sightD) foresight and intermediate sight		3		1
9.	The height of instrument is equal toA) R.L. of bench mark + back sightB) R.L. of bench mark + fore sightC) R.L. of bench mark + intermediate sightD) 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



Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject – Surveying (BTCVC305)

Marks -10 Time -10.40 am- 11.10 am

Class – Second Year B. Tech Civil Date – 24/11/2023 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.	Question	Ans	CO	PO	M
lo 1.	Plane table (PT) surveying is a method.	A	2		
	A) Graphical B) Linear C) Circular D) Angular	B	2		-
2.	A plumbing fork is used to the plane table. A) Focus B) Centre C) Orient D) Level				
	and the latencie used for leveling a plane table?	В	2		1
3.	A) Plumb bob B) Spirit level C) Compass D) C and	В	2	-	]
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called by the sector of the location of the known station by traversing	D			
5.	A) radiation B) intersection Three point problem can be solved by	D	2		
	A) Tracing paper method D) all of the above	В	3		
6.	<ul> <li>C) Lemman's mean of the control of the mean spheriodal surface of earth</li> <li>A) horizontal line B) line parallel to the mean spheriodal surface of earth</li> <li>C) line passing through the centre of cross hairs and the centre of eye piece</li> <li>D) line passing through the objective lens and the eye-piece of a dumpy level</li> </ul>	D	3		
7.	wing the parallax,				
8.	C) either (A) of (B) The following sights are taken on a "turning point"	С	3		100 - 100
0.	<ul><li>A) foresight only</li><li>C) foresight and back sight</li><li>D) foresight and intermediate sight</li></ul>	A	3		
9.	A) R.L. of bench mark + back sight D) back sight + fore sight				-
	C) R.L. of bench mark + interimentation of the back- sight is 1.215 m and the foresight is	A	3		
10	If the R.L. of a B.W. is recovard station 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				_

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10	DR. BABASAHEB AMBEDKAR TECHNICA Sanjeevan Engineering & Technolog	L UNIVERSITY, LONERE.
	Sanjeevan Engineering & Teennerg Department of Civil Eng Mid Semester Examinat	tion 2023
$\sim$		ACADEMIC YEAR: 2023-24
	SEMESTER: III	PRN.:
oti	NAME OF STUDENT:	Time : 2.00pm-3.00pm
	CLASS: S.Y. DAY & DATE: FRIDAY 27/10/2023	Marks: 20
England & SCHRECEL ASSIST	SUBJECT NAME WITH CODE: HYDRAULICS	I BTCVC 304

Instructions to the Students:

1

2

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

Question	Sub	Question	co	PO	BL	Marks
No.	Question	Attempt the Following			4×1	=4
1.	a.	<ul> <li>Attempt the Following</li> <li>For an incompressible fluid does density vary with temperature and pressure?</li> <li>a) It varies for all temperature and pressure range</li> <li>b) It remains constant</li> <li>c) It varies only for lower values of temperature and pressure</li> <li>d) It varies only for higher values of temperature and pressure</li> </ul>			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 <sup>3</sup> 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
-		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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		7. Uing	3 ×2 =	= 6
- 1		Solve Any Two Of The Following	BL3	3
2.	0	Give classification of Fluid nows.	BL4	3
-	a.	What are the types of fluids?	BL5	3
-	b.	State and explain Pascal's law		
	с.		5×2 :	= 10
3		Solve Any two of the following	BL5	5
3	а.	Derive Bernoulli's equation from Euler's equation	BL5	5
	b.	and an Continuity equation	BL6	-
	с.	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°.		

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Class :Subject :			and the second se	
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Civil Engineering Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala, Dist, Kolhagen (Institute				



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10	DR. BABASAHEB AMBEDKAR T	ECHNICAL UNIVERSITY, LONERE.			
	Sanjeevan Engineering & Technology Institute, Panhala.				
		f Civil Engineering			
Contraction of the second		Examination 2023			
	SEMESTER: VII	ACADEMIC YEAR: 2023-24			
antood/Aleiton	NAME Of STUDENT:	PRN.:			
150 VV @ 30	CLASS: Final Year B. Tech.	Time : 10.00am -11.00am			
	DAY & DATE:	Marks: 20			
A second	SUBJECT NAME WITH CODE: Desig	n of Reinf. & Prestressed concrete			
	Structure				

Instructions to the Students:

1 1

- 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.	Question	Attempt the Following			4×	1 =4		
1.	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		
	с.	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.	1	Solve Any Two Of The Following			$3 \times 2 = 6$			
	a.	Explain the torsion acting on beam.	01			3		
	b.	Explain longitudinal and transverse reinforcement for column.	02			3		
	с.	What are the advantages of Prestress concrete structure	02			3		
3		Solve Any two of the following			$5 \times 2 = 10$			
	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		

**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist, Kolhanov, M1C 2011

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nswer Key.

0	DR. BABASAHEB AMBEDKAR TECH	NICAL UNIVERSITY, LONERE,				
	Sanjeevan Engineering & Technology Institute, Panhala.					
AL THE MENT	Department of Civil Engineering					
$\sim$	Mid Semester Exa	nination 2023				
100000	SEMESTER: VII	ACADEMIC YEAR: 2023-24				
July mond Acard	NAME Of STUDENT:	PRN.:				
	CLASS: Final Year B. Tech.	Time :				
1 BERTENIN	DAY & DATE: 12 10 2023 -	Marks: 20				
	SUBJECT NAME WITH CODE: Design of I Structure	Reinf. & Prestressed concrete				

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	Mark		
1.		Attempt the Following			4×	1=4		
	a.	4				1		
	b.	MCQ.				1		
	с.	MCQ.				1		
	d.	MCQ.				1		
Ť								
2.		Solve Any Two Of The Following	$3 \times 2 = 6$					
	a,	Explain the torsion acting on beam.			1	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	1		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		
		Calculate load carrying capacity of column having b = $230 \text{ mm } D = 450 \text{ mm}$ . Six bars of 12 mm diameter are used as main steel. Use M20 concrete & Fe 415 steel.				5		
		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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ochig on beam is increased. Longitudinal q -transverse Reinf 6) Longitudinal steel is use fical stred present in column. This steel provided to toke optial lood on longitudi column. Min bor dia. of longitudinal steel is deel 12mm. Min 0.8%. 4 TODE GY. Steel is provided as a francos longitudinol steel stee PU: 0.4 fck Ac + 0.67 fr Ast. -Dist in above eqn gives longitudinal steel. Papsverse steel nology Institute Civil It is made steel njeevan En omwar Peth. Fannoia: Jost. Kolhapur. (416-201)-LAT THE N

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

PRN No.

C.A.1

Class - Second Year B. Tech Civil Date - 26 /09 /2023 Name of Student :

Subject – Mechanics Of Solid (BTCVES302)

Roll No.

Marks -10 Time - 10.00 to 10.30am

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 asA) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law		I	I	1
5.	The stress at which extension of a material takes place more quickly ascompared to the increase in load is called		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	- in	-	1	1
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**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala. Dist. Kolhapur. (416 201)





#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

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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	Aris	CO	PO	Miks
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	в	1	1	1
2.	Strain is a quantity.         A) Scalar       B) Vector         C) Dimensionless       D)None of the above	с	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	I	i	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known asA) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law	в	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	D	1	:	1
	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
7.	If the material has identical elastic properties in all directions, it is called         A) Elastic       B) Isotropic       C) Plastic       D) Homogeneous	8	1	1	1
	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	с	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	В	1	1	1

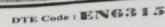
**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist. Kolhapur, (416 2011



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	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         4       5       6       7       9       5       4-7- Sports, 8- Annual Social Gathering, 8         11       12       13       14       15       16       5       12-17 Depat. Site visit/industrial Tour         18       19       20       21       22       23       24       6       23- Parikrama, 18 -22 Guest Lecture         26       27       28       30       30       3       25-Dhulivandan, 29-Good Friday         11       12       13       4       5       6       5         8       10       12       13       4       9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fit         14-Dr.Babasaheb Ambedkar Iavanti       17-Shri Ram Navami, 18-20- MSE, 21-Ma       17-Shri Ram Navami, 18-20- MSE, 21-Ma         22       23       24       25       26       27       28       6       26-11- Project Phase I Presentation         29       30 <td></td>								
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		-	13	14	15	16		5	12-17 Depat. Site visit /industrial Tour
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	20	21	22	4	24	25	26	5	21- Field Training report Submission
いた	27	28	29	30	31				23-Buddha Pounima, 25- End of Classes
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No.	3	4	5	6	7	8	9	-	
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Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.

Monut	,		Week Days					working days	Events			
e l	MON	TUE	WED	THUR	FRI	SAT	SUN	wo				
-		1	2	3	4	5	6	0	4- Commencement meeting			
	7	8	9	10	11	12	13	6	7- Reporting & Commencement of Classes			
TCODON	14	<b>DIN</b>	Jus -	17	18	19	20	3	15 - Independence Day,16 - Parsi New Year			
In I	21	22	23	24	25	26	27	6	17- Alumni Meet, B. Tech. Project Group Formation			
-	28	29	30	31				4				
¥					1	2	3	1	2- NAAC Review Meeting			
BE	4	5	6	7	8	9	10	6	8,9 CA-1			
EM	11	12	13	14	15	16	17	5	15- Engineer's Day Celebration			
SEPTEMBER	18	23.9	20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet			
SE	25	26	27	281	29	30		4	28-Eid-e-Milad			
							1	0				
H	22	3	4	5.	6	7	8	4	02- Mahatma Gandhi Jayanti, 03-06- Mid Semester Exam.			
OCTOBER	9	10	11	12	13	14	15	6	12- Disply of MSE Marks			
TO	16	17	18	19	20	21	22	5	19- Seminar Presentation			
ŏ	23	24	25	26	27	28	29	5	24-Dussehra			
	30	31						2	30-31 -Industrial Visit			
R			1	2	3	4	5	3	3- Project Presentation			
NOVEMBER	6	7	8	-9-	10	11	12	6	09,10-CA-2, 12- Laxmi Pujan			
EN	13	- MAR			17	18		4	14- Bali Pratipada			
0	20	21	_	the second design of the secon	24	- 25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM			
Z	25	28	29	30	2	-	-	0	27- Guru Nanak Jayanti, 29- Parents Meet			
R	-	-	and internet		1	2	3	0	01-13 End Semester Examination			
DECEMBER	.4	Contraction of the local division of the loc	-	100 C	8	10 2.00	10.00	0	15-31- Field Training/Internship/Industrial Training			
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	. Holida Activitie			CA/MSE/P	ract. Ex	-	12262.54	78	01st January 2024 Commencement of Classes for Next			

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

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**Civil Engineering** At. Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala. Dist. Kolhapur. (416 204)





# **Department of Civil Engineering**

# 2.5.1 CA I, CAII, MSE Record



DTE Code : ENGRIS

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NAAC Accordited AICTR ID : 1-6010451 AISHE Code : C-ITISS



Date: 08/05/2024

# <u>Continuous Assessment – II Conduction Notification</u>

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:

- All student must Wear identity card. If not in possession, get HOD's/class a. 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	

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Date 8/05/2024

## Notice

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

SR No	Date	Time	Class	Subject	Class	Subject	Class	Subject
110		9.30 am - 10 am		BPD	TY	DRCS		MRCS
		10.30 am - 11 am	SY	EE		FE		RSE
		11.30 am - 12		SM-I		TRE	DE	
01	10/05/2024	12.30 pm - 1 pm		WRE		IWT	BE	
		2.30 pm - 3 pm		HEII		BHR		
		3.30 pm - 4 pm	1	EG		IC		

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Civil Engineering Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist, Kathapur, 1416,2941





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= ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA nue Pula Injele Panhala, lal Panhala Dia Kelhapar Sanjeet in Knowledge City, Scinisar Peth Injele, P. Pin, He 501 (Malassishia) – Phone - 014699900

•) Approved By AICD., New Dellot -> Recognized by Govt of Maharashtra & DTE consistent Attiliation by Dr. Babasaheb Ambedhar Technological University, Baigad

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

Meyekari Prof HOD Civil

HOD **Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist, Kolhapur, (416 201)

1 JSM

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2 EPS

3AMM -4 SSC 5 ACT -

6 ART

7 MMS 8 RAP





AWITE IN 2 1-8019431 MSRL Cede : F-11165



DTE Code : ENG315

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA Sanjeevan Knowledge (10), Soemaa Petil Injole, Panhala, Tal Panhala, Diot Kolhopur, Dio 446-501 (Mahurashra) – Phone (914/0909500

O Approved By AICTE, New Delhi, O Recognized by Govt, of Maharashtra & DTF. O Permanent Affiliation by Dr. Babasaheh Anabedkar, Technological University, Raigad

Date 8/05/2024

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

#### **<u>Time Table for CA II</u>**

Prof. A. R. Tonne

1

Exam coordinator

Prof. J. S. Mevekari

HOD Civil







AITTE ID : 1-5019451 MSHI Code : C-11165



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

Date 8/05/2024

## Seating arrangement for CA I & Midterm exam

DATE	CLASS	A 106	A 107	A 108
	S.Y.	Roll no. 1-36	Roll no. 37-49	
10/05/2024	т.ү.	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





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



DTE Code : ENG315

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA Sanjeevan Knowledge City, Sontwar Peth-Injole, Panhala, Tel, Panhala, Dist, Kolhopur, Pin-416 201 (Maharatultra) Phone : 9146992500

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#### Date 8/05/2024

#### Supervision Chart for CA II

AM - 02 Amm. 02 CSC - 01 RCB - 02

DATE	TIME	CLASS	A 106	A 107	A 108			
		S.Y.	AMM	MMS				
	9.30 am - 10 am	T.Y. ACT		RAP				
		B.E.			RSB			
		S.Y.	SSC	AMM				
	10.30 am - 11 am	T.Y.	ART	ACT				
		B.E.			RSB			
ł		S.Y.	MMS	RSB	. •			
N	11.30 am - 12		RAP	ART				
		B.E.	mms	RAD				
10/05/2024		-		TT				
		S.Y.	AMM	SSC				
	12.30 pm - 1 pm	T.Y.	RAP	· RSB	;			
-		B.E.		wwe				
	1	S.Y.	MMS	ACT				
1	2.30 pm - 3 pm	T.Y.	RAP	SSC				
L		B.E.	DET.	Q 5 Q				
		S.Y.	AMM	MMS				
	3.30 pm - 4 pm	T.Y.	ACT	SSC				
	5.50 pm - 4 pm	B.E.	SGC	RSC.				

Prof. A. R. Tonne

Exam coordinator

Prof. J. S. Mevekari

HOD Civil





#### Holy-wood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

ass - Second Year B. Toch 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		1-2.5.0.0	
in a structure.				
a) Circulation b) Ventilation		4	1	
c) Dissipation d) Condensation	0 C		1 1 1 1 1 1 1 1 1 1 1 1 1	
It is quite evident that the incoming air for ventilation should	be			
in summer and in winter before it enters th	e			
room.		4	1	
a) cool, warm b) warm, cool			A2981	
c) humid, dry				
In system, the use is made of doors, windows				
ventilators and skylights to make the room properly ventilate	d.			
a) Artificial ventilation b) Natural ventilation		4	1	
c) Air conditioning d) Mechanical ventilati	on			
Exhaust system, supply system, air conditioning, etc. comes				
under type of ventilation system.				
a) Natural b) Mechanical		4	1	
c) Man made d) Doors				
One pipe system is cheaper than the single stack system for t	he			
drainage of buildings.		3	1	
a) True b) False			<b>^</b>	
Which pipe is mostly used for carrying cold water?				
a) Copper pipe b) Steel pipe		3	1	
c) PVC pipe d) Lead pipe		0	1	
Which pipe is used for carrying cold and hot water?				
a) Poly propylene b) Poly propylene random co-polym		~		
c) High density poly ethylene d) Low density poly ethylen		3	1	
State the two advantages of PVC pipes?	e			
<ul><li>a) Durable and corrosion free</li><li>b) Durable and economical</li><li>c) Light weight and economical</li><li>d) Light weight &amp; corrosion</li></ul>		3	1	
free		5	T	
Green building practices include				
				a second second second
	s	5	1	
c) Only Environmental Protection d) All of these		Ŭ	-	
Which of the following is not the purpose of a green building? a) To reduce use of water	>		[-	-
b) 10 minimize damage		5 t	VI	
a) c) Re-use of waste materials d) None of the abov		15	any.	-
	BBTA	CIPA	C	
Civil Engineering Sar		in Ot I	nstitu	tions
Sanjeevan Engineering & Technology Institute (Deg	Jeevan Grou ree Engg.), 50	mwarp	eth, Pa	nhala, n1 (M S

ng & rechnology Institute Somwar Peth. Panhala, Dist. Kolhapur. (416 201) (Degree Engg.), Somwarpeth, Funday, Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)





### Holy-wood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

#### C. A. 2

Class - Second Year B. Tech Civil Date - 10/05/2024 Name of Student:

Subject - Building Planning and Drawing (BTCVC 401) Marks -10 Time - 09:30 am to 10:00 am Roll No.

PRN No.

Instructions: - 1. All questions are compulsory.

2. Write option of answer in Ans column

#### Answer Solution

2. No	Question	Ans	co	PO	Mk
	The term is used to mean the free passage of clean air				
1	ma su detute.				
-	a) Circulation b) Ventilation	В	4	1	
	c) Dissipation d) Condensation				
	It is quite evident that the incoming air for ventilation should be				
	in summer and in winter before it enters the				
2	room.	A	4	1	
	a) cool, warm b) warm, cool				
	c) humid, dry d) dry, humid				
	In system, the use is made of doors, windows,				
3	ventilators and skylights to make the room properly ventilated.	_			
U	a) Artificial ventilation b) Natural ventilation	В	4	1	
	c) Air conditioning d) Mechanical ventilation				
	Exhaust system, supply system, air conditioning, etc. comes				
4	under type of ventilation system.	-			
	a) Natural b) Mechanical	В	4	1	
	c) Man made d) Doors				
10-20	One pipe system is cheaper than the single stack system for the				
5	drainage of buildings.	В	3	1	
	a) Trueb) False				
	Which pipe is mostly used for carrying cold water?				
6	a) Copper pipe b) Steel pipe	С	3	1	
	c) PVC pipe d) Lead pipe				
	Which pipe is used for carrying cold and hot water?				
7	a) Poly propylene b) Poly propylene random co-polymer	В	3	1	
	c) High density poly ethylene d) Low density poly ethylene				
。	State the two advantages of PVC pipes?				
8	a) Durable and corrosion free b) Durable and economical	D	3	1	
	c) Light weight and economical d) Light weight & corrosion free		CORO.		
1000	Green building practices include				
9	a) Only energy efficiency. b) Only recycled materials	D	5	1	
	of only buy fulling and protection di all of these	-		1	
10	Which of the following is not the purpose of a green build a		-		
10		D	-	,	
a 19	c) Re-use of waste materials d) None of the above	D	5	1	

Civil Engineering Sanjeevan Engineering & Technology Institute Somwar Peth, Panilala, Dist. Kothapur, 1416 2011



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			SY CIVIL -20					
			Attendance	e CA II				
Roll No.	PRN	N			Subject			
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2	2263151191006	DINDE SAMARTH JANARDAN	tores .					
3	2263151191003	KADAM SAMARTH PRAVINKUMAR	forony.	form.	Goove .	Form	Gorone.	Goome .
4	2263151191005	KARANDE PRACHI SANJAY	- EA	Pht	- atz.	- <del>8812</del> ,	PPB	7005
5	2263151191007	PATIL MAYUR DEEPAK	Vro 03 Zatil	Fold Harry	Vol3 Jarnut	Kel3 Tamul	Kers Jahim	westation
6	2263151191001	PATIL SAHIL ARUN	SP-	SP	GOP	ap	OR	GOP
7	2263151191008	PATIL VYANKATESH MANOHAR	Dot	Ont	Quy	Que	Quy	-Aut
8	2263151191004	RUPNOOR SATEJ PRAVIN					~ ·	
9	23063151191529	DHUMALE SURAJ BHIKAJI	-d.	- <del>8</del> e.	-BL	A	Dr.	-de
10	23063151191538	SABALE ABHISHEK BAPU						-ac
11	23063151191527	KAMBLE GAUTAM BALASAHEB						
12	23063151191532	PALANGE SANIKA RAMESH						
13	23063151191502	POWAR SAMRAT ASHOK		And	- AD	-A.P	- YA	+12
14	23063151191508	KAMBLE TUSHAR DAGADU	Fromble	Frontole	Famble	Franklo	Frankle	Cemble
15	23063151191517	DESAI DINESH BHAUSO	E.	1		17	12	T

Sanjeevan Engineering & Technology Institute Sanwar Peth, Panhala, Dist, Kolhabur, (416 201)

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16	23063151191516	PATIL SIDDHARTH SANJAY	Τ				1	T
17	23063151191507	KHOT SHANTANU SANDIP						
18	23063151191505	PATIL SUSHANT ABASAHEB						
19	23063151191518	KUMBHAR RUSHIKESH CHANDRAKANT	Phone bhag	Rhunbhas	Colomithes	Rhumbher	(Kumbinos	Former of
20	23063151191515	PATIL YUGANDHRA SHRIKANT	-1		10	1 de la competition de la comp		Unameriz
21	23063151191503	HIRUGADE ONKAR TANAJI			1		_	1
22	23063151191536	KAMBLE RAKESH VINOD		_				
23	23063151191530	PATIL AJAY DILIP						
24	23063151191510	BHOGULKAR VAIBHAV GUNDUPANT					1	1
25	23063151191525	PATIL SAURABH KRISHNAT					1	
26	23063151191509	PRATHMESH RAVINDRA MANGORE	that	- Futhneth	El.n	1 total	Ellan	E.T
27	23063151191511	GAD VINAYAK VIJAY	- ip-minut	- the Wart	A TANKS	1 A. Marsh	Redard	Schart
28	23063151191512	GAWADE YASH SURESH						
29	23063151191522	BAGANE TEJAS NAYAKU						
30	23063151191528	KADAM SANKET ARUN	( Trues	id	Greet	-	Cred S	iter).
31	23063151191526	VIJAY GULSHAN SHINDE			_00	00	60	0

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34	23063151191535	DIGAMBAR BALASO KOLI						
35	23063151191533	PRATIK RAJARAM SHINDE						
36	23063151191531		NACIÓ	No C				
37	23063151191514	PATIL VIRENDRA BHIMRAO	Dires	Dirces	Diras	Dirces	Diras	Dirag
38	23063151191521	THORAVAT KUMBHAR OMKAR RAJARAM	that and	- Audit	Pett	Bull	- grat	- Sall-
39	23063151191524	KAMBLE SHUBHAM BAJIRAO	See.	Oma.	Ond .	Omr.	conor.	onar-
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				12	-st-	A
47	23063151191504	JADHAV SIDDHANT RAVINDRA					-	-
48	23063151191534	SUTAR SANDEEP SADASHIV	Kandeep	Sandeepf	Sandlep	- Landelp	1 6 1000-6	a last
49	2263151191509	SATHE BHARAT DINKAR	P	Sp B	pros	parant	Sandeer	Sandeepf

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Civil Engineering Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist, Kolhapur, (416 2011

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



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			Attendance (				
Roll No.	• PRN	Name of Student					
1	2163151191001		DRCS	FE	19-05-24		
2	2163151191001	GANDITKAR SANDHYA APPARAO	The	Aller	TRE	TWT	848
3	2163151191002	GAIKWAD PRUTHVIRAJ PRATAP RATHOD KIRAN VASANT	Prosturad	Consuma	Colud	1	Sel .
4	2163151191007	KAMBLE PREM SHRIKANT			PErechense	(PErsonal)	(200 mill)
	2163151191009	PATIL RUTURAJ KRISHNA					
6	2163151191010	MORE YASHRAJ VILAS					
7	2163151191011	CHOUGALE DIGVIJAY DADU					
8	2263151191501	PATIL SUYOG TANAJI					
-	2263151191502	KADAM SOHAM SHIVPRASAD		Patil	Bit	Baty	DAU
142370		SUTAR OMKAR SHANTARAM		1		2005	- Here -
11	2263151191504	WAGARE PRATIK YUVARAJ	<b>D</b> ,	0			
12	2263151191505	PATIL HARSHVARDHAN CHANDRAKANT	Pellogon	Ricone	Brange	Bueyon	Ansie
13 2	2263151191506	KORKE SHUBHAM SANJAY		Aufatil	Frefall	H-Patil	St-efatil
14 2	2263151191507	HALADE SOURAV SACHIN	- /e/ Malade	antela	10		5. 10000
15 2	263151191508	AVADHOOT RAVINDRA KHADE	Mandin	Mulale	& Malade	Splade	analode
16 2	263151191509	SATHE BHARAT DINKAR					The second secon
17 23	263151191510	PATIL PRIYANKA SHRIKANT					
18 22	263151191511	MARADE ANIKET DILIP		Bruch	A	0.000	
19 22	263151191512	HAVAN PARESH SAMBHAJI			gunt.	Am	Sun .
20 22	263151191513 R	AORANE ROHAN PANDHARI					
	263151191514 P	ATIL DHAIRYASHIL SNEHADIP			Call		
22 22	263151191515 P.	ATIL ASHUTOSH YASHWANT			tan I	- tetut -	- tot

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1 23	2263151191516	KAPIL SANJAY MAHADIK					
24	2263151191517	BELVALKAR TEJAS VIJAY					
25	2263151191518	SHINDE ANIRUDHA KUMAR		Achit.	atity.	Calit	- a shit
26	2263151191519	JADHAV KARAN VIKRAMSINH		Radbar 2	- Pille 1		
27	2263151191521	PATIL PRAUTHVIRAJ BAJIRAO		ford Daw	stadian	- Jan	- indhan
28	2263151191522	POWAR SAKSHI DINKAR	-	been	· burger	Kat	Bacest
29	2263151191523	BHONGALE AVDHUT VINOD			4	Ber	100
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	Gospe	alle	*		
36	2263151191531	PATIL SAIPRASAD JANARDAN		- Level	Callad-4-	Flacht-	Fastil
37	2263151191532	KAMBLE TEJAS DHANAJI	Ekamble	Tekanobe	Flamble	Thank	Tamble
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40	2263151191535	PATIL VISHAL VIJAY					
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42	2263151191538	CHOUGALE HARSHWARDHAN BAJIRAO				A SHOT I	10 Clinet
43	2263151191539	KAMBLE ATUL UTAM					
44	2263151191540	KEMBLE RAVIKANT RAGHUNATH					

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

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		Civil Engineering De	Alliants by Dr Bubuaheb Ambria Spartment			
		B. Tech CIVIL -2023/24				
		Attendance CA II				
Roll N	o. PRN	Name of Student	10-May-2024			
			MRCS	RSE		
1	T2063151191001	ASHWIN ARUN SAWANT	Asim	Adades		
2	T2053151191002	DADASAHEB NAVNEET DHANGAR	ZAPPZ'd	P. 30 and		
3	T2053151191003	HARSHAVARADHN JAGANNATH PATIL	1 this	Lttt-		
4	T2053151191004	JAYESH RAJARAM SOLANKURKAR	Syl	(July)		
5	T2053151191005	SAHIL SURAJ DANGE	1-1.	T T		
6	T2053151191005	SHABDALI SHIVAJI CHOUGULE				
7	T2053151191007	SHIVAM VINOD JADHAV	Shivan .			
8	T2063151191008	SHIVAM ARUN CHAVAN	B.	- Agues.		
9	T2053151191009	SUMIT SURESH PATIL	-Satil	Bani		
10	T2063151191010	SUPRIYA SUBHASH FUTANE				
11	T2063151191011	NIKAM VIVEK VISHWAS	Vien?.	Viene.		
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	ten	- Chert		
18	T2163151191505	SHINDE SANKET SURYAKANT	lun			
19	T2163151191507	CHOUGALE SHUBHAM BABASO	8			
20	T2163151191508	JAMDADE AMIT UTTAM	Anda	Ababade		
21	T2163151191509	DESHMUKH RUSHIKESH ANANDA				
22	T2163151191510	PATIL SUSHANT MOHAN				
23	T2163151191511	KUIGADE SHIVAM SANJAY				
24	T2163151191512	KARANDE VIJAY UMRAO				
	T2163151191513	SHINDE MANDAR VILAS				
	T2163151191514	KAMBLE RUSHIKESH SURESH	(BSKING)	Rent		
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.... Civil Engineering SanJeevan Engineering & Technology Institute

PATIL RAJWARDHAN SUBHASH

DESHMUKH RAHUL PRAKASH

KAMBLE SAURABH SANJAY

BOKKA SURYA PRAKASH SRINIVASRAO

T2163151191519

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35	12163151191525	NARKE PIYUSH JAYAVANT	Flanke	
36	T2163151191526	GURAV PRANAV PRAKASH	Fernar	
37	T2163151191527	BALAP ROHIT SANJAY	famt.	
38	T2163151191528	PATIL TUSHAR SHIVAJI	TRES	
39	T2163151191530	KURANE MOHIT DEEPAK		
40	T2163151191531	PATIL AADITYA BALASO	Clats	Glats
41	T2163151191532	PATIL PRUTHVIRAJ BABASAHEB		
42	T2163151191533	NIRUKHE SHIVRAJ SARJERAO	Ster	fores
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44	T2163151191535	GORE GANESH SHRIMANT		
45	T2163151191536	PAWAR ASHISH GORAKSHA	CATUR	C IL I
46	T2163151191537	KHIRUGADE SUMEET SUNIL	Sumcets 1	Jumerts
47	T2163151191538	GADGIL RANVEER UTTAM		
48	T2163151191539	PATIL AKASH BABAN	-Azaly	
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51	T2163151191543	JOUNDAL RUSHIKESH BABASO	7.51	V 3
52	T2163151191545	GAIKWAD RUTIK SUNIL		
53	T2163151191546	PATIL ADITYA DEEPAK		
54	T2163151191547	MAHADIK SWAROOP SUBHASH	Swarrooph	
55	T2163151191548	GAIKWAD KEDAR SURYAKANT	weille_	
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	Reputu'	
62	T2163151191556	PATIL YOGESH YUVRAJ	four	
63	T2163151191558	SONAWALE OMKAR TANAJI	Sanawall	
64	2063151191029	RAJVARDHAN PARSHURAM POWAR	2	
	2063151191068	DAREKAR ATUL SARJERAO	Sanckore	8

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







ALCE D : 1-8019451 ADDE Code : C-11165



# **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

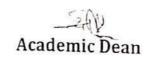
Important Instructions

- 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.

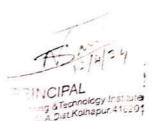
Sr. No.	Details	Signature
1	HOD – Electrical Engg.	
2	HOD – Civil Engg.	
3	HOD – Computer Engg.	
4	HOD - Mechanical Engg.	
5	HOD - BSH	

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









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# NOTICE

# MSE

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

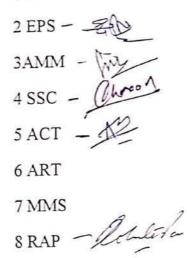
The MSE for all students are scheduled on 18th April 2024. In this regard all the staff are here by informed that, they have to prepare MSE question paper & submit up to 16/04/2024.

Prof. A. R. Tonne Exam coordinator

evekari Prof.

HOD Civil HOD **Civil Engineering** Sanjaevan Engineering & Technology Instituty Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

1 JSM



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







# 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	II, IV, VI & VIII	18 April to 20 April 2024
2024.		

**Important Instructions** 

DTE Code : ENGS 13

- 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.	Some sententing in the
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

EERING & F EXAN SECTION

PRINCIPAL Ting STechnology Institute MA, Dist Kolhapur, 41620

EXAMINAT Sanjuovan Englishing and Technology Institute, Somwar Peth, Panhala-116201

VO Y72 00

PF 12, 2024, 16:34

Academic Dean



			City		SANJEEVAN	
.,	rit Code i	RUTWALLE E TE			NGINEERING & TECHNOLOGY INSTITUTE, PANHALA	
		NID TEDM	and the second se		nmer 2024 TIME TABLE	
Day &	Time	Branch Name	Class	Less size session	le Subject Name	
Date			SY	BTCOC401	Design and Analysis of Algorithm	
		Computer Sci. & Engg	17.18	BTCOC601	Compiler design Building Planning and Drawing	
	9:30 am	Civil Engg	SY TY D Tach	BTCVC401 BTCVC601 BTCVSS801D	Design of RC Structures	
	То		B.Tech SY	BTEEC401	Natwork Theory	
	10:30am	Electrical Engg.	TY	BTEEC601	Switchgear and Protection Manufacturing process - 1	
	interest of the second	and the second second	SY	BTMC401 BTMC601	New Induring process - II	
		Mechanical Engg.	TY B.Tech	BTMEC801A	Fundamentals of Automotive Systems	
	owence 1999	Computer Sci. & Engg	SY	BTCOC402	Operating System Computer Networks	
	12:30 pm To 01:30 pm		Computer Sci. & Engg	TY	BTCOC602	Environmental Engineering
		Civil Engg	SY TY	BTCVC402 BTCVC602	Foundation Engineering	
		Flooring Enga	SY	BTEEC402	Power System Electrical Machine Design	
		Electrical Engg.	TY	BTEEC602 BTMC402	Theory of amchines - I	
1304		Mechanical Engg.	SY TY	BTMC602	Machine desgin - II	
Thursda			SY	BTHM403	Basic Human Rights	
y,	14.47	Computer Sci. & Engg	TY	BTCOC603	Machine learning	
18/04/20	and the second		SY	BTCVC403 BTCVES603	Structural Mechanics - I Artificial Intelligence (NPTEL/SWAYAM)	
24	3:30 pm	Civil Engg	TY B.Tech	BTCVES803	Remote Sensing Essentials	
	to 4:30		SY	BTEEC403	Electrical Machine-II Control System Engineering	
	pm	Electrical Engg.	TY SY	BTEEC603 BTHM403	Basic Human Rights	
	1.1	Mechanical Engg.	TY	BTMPE603D	Elective - III (Engineering Metrology & quaility control	
	下	The statement of the	B.Tech	BTMEC801F	Non conventional energy resources	
		Denter Col & Epon	SY	BTBSC404	Probability and statistics	
	12	Computer Sci. & Engg	TY SY	BTCOE604 BTCVC404	Elective - IV Water Resources Engineering	
	9:30 am	Civil Engg	TY	BTCVC604	Transportation Engineering	
	To	Electrical Engg.	SY	BTBS404	Analog and Digital Electronics	
2	10:30am	Electrical Eliga.		BTEEPE604 BTMES404	Group D - Smart Grid Technology Strength of Materials	
	始至此	Mechanical Engg.		BTMPE604D	Elective - IV (Robotics)	
Friday,				BTES405	Digital logic design & Microprocessors	
19/04/20	The providence of	Computer Sci. & Engg -	TY	BTHM605	Elective - V	
24	12:30 pm	Civil Engg	the second se	BTCVC405 BTCVPE605	Hydraulics - II Industrial Waste Treatment	
	To 01:30 pm	Electrical Engg	SY	BTEEPE405	Group A - Advance Renewable Energy Sources Group E - Power Plant Engineering	
		Mechanical Engg	SY [	STMPE405A - C	Elective - I	
	3:30 pm	Civil Enga		1CVC406	Engineering Geology	
-1232	3:30 pm to 4:30	Civil Engg	TY EAN LAND	BTMOE 605C	Open elective - II (Energy Conservation and	



	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE. Sanjeevan Engineering & Technology Institute, Panhala. Department of Civil Engineering					
anno anne se	Mid Semester Examination 2023 ACADEMIC YEAR: 2023-24					
	SEMESTER: IV	and a second				
unoud Asaga	NAME OF STUDENT:	PRN.: Time : Marks: 20				
133	CLASS: Third Year B. Tech.					
(ME)	DAY & DATE: Friday - 19 4124					
I ftoche sere i	SUBJECT NAME WITH CODE: Transportation Engineering					

Instructions to the Students:

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- 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	РО	BL 4×	Marks
1.	Attempt the Following					1
	a.	a) Break reaction time b) Visibility limit				
		c) Head light distance d) Overtaking sight distance	-			1
3	b.	The camber required depends on a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall				
	. c.	penetration test on bitumen is used for determining a) Temperature susceptibility b) Grade a) Viscosity d) Ductility				1
*	d.	The function of expansion joint in rigid pavement is a) Relieve wrapping stresses				
	-	<ul><li>b) Relieve shrinkage stresses</li><li>c) Resist stresses due to expansion</li></ul>				
		d) Allow free expansion				
		Solve Any Two Of The Following			3	$\times 2 = 6$
2.		Write types of sight distances, in details.		1		3
	a.		_	-		2
	b.	Write note on PIEV theory.				5
	с.	Explain in detail classification of road?				3

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	$5 \times 2 = 10$	
Solve Any two of the following		5
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		25
Draw the section of pavement and explain its elements	10	5
Write a short note on CBR Test		5
	traffic. The acceleration of the overtaking vehicle is3.6 kmph. Calculate. (i) Safe overtaking sightdistance. (ii) Minimum and desirable overtakingzone. assume total reaction time = 2 seconds.Draw the section of pavement and explain its	Solve Any two of the following         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.         Draw the section of pavement and explain its         elements

\*\*\*\*\* \*\*\*\*\*\* 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 perceptionreaction 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.

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

where:

0

- 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

0

- 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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ALTC Accredited AUGIE ID : 148019451 AUGIE Code : 641165



Date: 22/02/2024

# **<u>Continuous Assessment – I Conduction Notification</u>**

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

- 1. All HOD
- 2. All department Examination Coordinators

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



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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 28<sup>rd</sup> 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

1 JSM -

2 EPS - -

3AMM

4 SSC

5 ACT =

6 RSB

7 ART

8 MMS

9 RAP

mahnut

Prof. A. R. Tonne

Mid-Term co-ordinator

Nevekari Prof

H.O.D. Civil

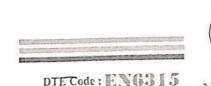
HOD

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







AISEE Code : C-11165



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	Cla ss	Subject	Class	Subject	Class	Subject
01	28/02/2024	3.00 pm - 3.30 pm		BPD EE	_	DRCS FE		
	29/02/202	3.40 pm - 4.10 pm		SM-I WRE	-	 TRE		
02	4	2.00 pm - 2.30 pm 3.00 pm - 3.30 pm	SY	HEII	TY	IWT	BE	
03	01/03/2024	10.00 am-10.30 am		EG		BHR		MRCS
		10.40 am -11.10 am						RSE

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HOD **Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist, Kolhapur, (416 201)







DTECode : ENG315

MAAC Accredited MCTE ID : 1-8019451 MSIII (ode : 1-11165 Sanjervan Knowledge City, Semona Path Isode Pardeala, Fal Paralada, Otar Kadhapar Pine-Hiti 201 (Maharashira) — Pisore -9140292100 O Approved By AlCTF, New Delhi - 2 Recognized by Govt, of Maharashira & OTE

O Approved By Alt TP, New Della 'O Recognized by Orec of adaptation of the O Pennanent Affiliation by Dr. Babasaheb Ambedkar, Fechnological University, Raigad

Date 23/02/2024

## Supervision Chart for CA I / Midterm test

DATE	TIME	CLASS	A 108	A 107	A 106	A 103 (DH)		
		S.Y.	AMM	MMS				
	2.00 - 2.30	T.Y.	ACT	RAP		-		
-	1	B.E.		-				
		S.Y.	SSC	AMM				
28/02/2024	3.00 - 3.30	Т.Ү.	ART	АСТ				
		B.E.	-	-				
		S.Y.	MMS	RSB				
	3.40 - 4.10	T.Y.	-		-			
		B.E.						
		S.Y.	AMM	SSC				
	2.00 - 2.30	T.Y.	RAP	ART				
	2.00 - 2.30	B.E.		-				
29/02/2024		D.L.		-				
		S.Y.	MMS	ACT				
	3.00 - 3.30	Т.Ү.	RAP	SSC				
-	ANG TERROTORIAN INCOMENTAL	B.E.	-	-				
		S.Y.	RAP	MMS				
	10.00 - 10.30	T.Y.	ACT	SSC	-			
		B.E.		- 550	ART	RSB		
01/03/2024						1 100		
		S.Y.	-	-				
	10.40 - 11.10	T.Y.	ART	AMM	1			
		B.E.			ACT	RSB		

Exam - Coordinator

(prof. A. R. Tonne)

PRINCIPAL

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

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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	т.ү.	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

HOD

Civil Engineering Sanjeevan Engineering & Tachnology Institute Somwar Peth Panhala, Dist M

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



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# Holy-wcod Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 1 Subject – Building Planning and Drawing (BTCVC 401)

Class - Second Year B. Tech Civil Date - 28 /02 /2024 Name of Student:

Roll No.

PRN No.

Marks -10

Time - 02:00 pm to 02:30 pm

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

No	Question	Ans	co	PO	Mk
	is the built-up covered area of a building measured at				
-	floor level of any story.		1	1	
1	a) Covered area b) Carpet area				
	d) Plinth area				
	area of a building is the area of verandahs,	1 6			
8925	passage corridors, balconies, porches, etc.		1	1	
2	a) Floor area b) Horizontal circulation area				
	c) Vertical circulation area d) Verandah area				-
	of building is the useful area or liveable area or	3			
	lettable area. This is the total floor area minus the circulation				
-	area, verandahs, corridors, passages, staircase, lifts, entrance		1	1	
3	hall, etc. minus other non-useable areas.			1260	
	a) Plinth area b) Floor area				
	c) Carpet area d) Circulation area				
	The placing of various rooms or units of a structure in proper				
4	correlation of their functions and in due proximity with each				
	other is known as		1	1	
	a) Aspect b) Prospect				
	c) Circulation d) Grouping				
	What is the level below window called?				
5	a) Pane level b) Lintel level		1	1	
	c) Sill level d) Plinth level				
	Which is not a type of building?				
б	a) Educational Building b) Mercantile Building		1	1	
	c) Institutional Building d) Domestic building				
	Which is not included in building codes?				
7	a) Mechanical integrity b) Safety		1	1	
	c) Providing employment d) Structural integrity				
	Which among the following is not a principle of planning?*				
8	a) Furniture requirements b) Aspect		1	1	
	c) Prospect d) Respect				
	Green building practices include				1
9	a) Only energy efficiency. b) Only recycled materials		1	1	
	c) Only Environmental Protection d) All of these		1	1	1
-	Residential building includes				-
10	c) Bungalows b) Apartments		1	1	
	d) Row Housings d) All of above	1	1	1	

HOD

**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala. Dist. Kolhapur. (416 2017

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





#### Holy-wood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 1

Class - Second Year B. Tech Civil Date - 28 /02 /2024 Name of Student:

Subject – Building Planning and Drawing (BTCVC 401) Marks -10

Time - 02:00 pm to 02:30 pm

Adda Aug

Somual Contracting i

PRN No. Roll No.

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

#### **Answer Solution**

. 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	D	1	1	
	c) Total area d) Plinth area				-
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	в	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	С	1	1	
4	The placing of various rooms or units of a structure in propercorrelation of their functions and in due proximity with eachother is known as	D	1	1	
5	What is the level below window called?a) Pane levelb) Lintel levelc) Sill leveld) Plinth level	с	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 Which among the following is not employed for the following is not employed.	с	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. c) Only Environmental Protection Residential building excludes	D	1		1
10	a) Bungalows b) Apartments b) Row Housings d) All of above	D	1		1

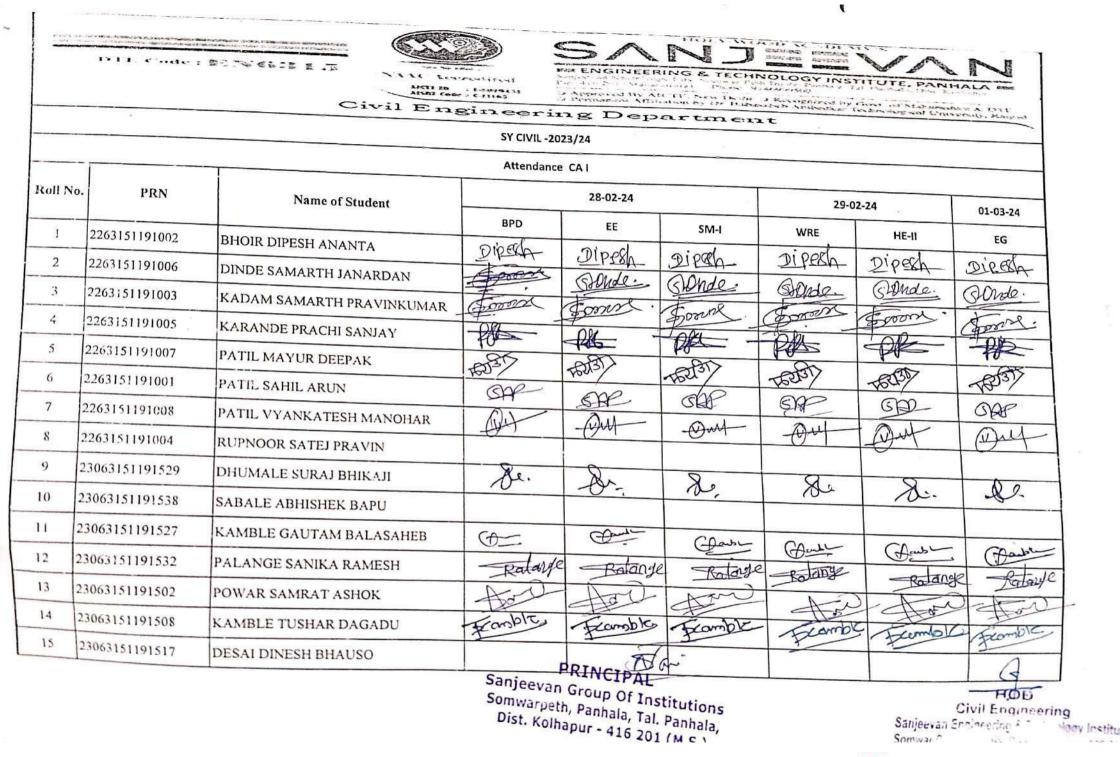
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Civil Engineering Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist, Kolhapur, (416 285)

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







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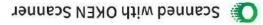
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AICTE ID : 1-S019451 AISHE Code : C-11165



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 10<sup>th</sup> November & 24<sup>th</sup> 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 08<sup>th</sup> 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

11/23 Dr. M.N.Hiremath

CH i O D i hdering Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala, Dist. Kolhapur. (416 201)

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CIPAL PRI

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





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

CAN 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				
	10:00AM To 10.30AM	MIII	SM-II	IE				
24/44/22	10:40AM To 11:10AM	SUR	CT	CM				
24/11/23	11:20AM To 11:50AM	BCD	PM	BRE				
	12:00 To 12:30PM		MTE	EQ				

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

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

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DTE Code : ENGELT

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ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA sees Semeeran Ken winder Cit. Semeer Path-Ingle, Panhala, Di Fashata, Ost, Kolingus, Pm-416 201 (Malorashtra) Phone . 9146499560

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	SUPE	TABLE 2023- RVISION CHAF	2024 RT	
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
	10:00AM To 10.30AM	Prof. Momin A.M.	Prof.R.S.Bore	Prof.J.S.Mevekari
24/11/23	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	T

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

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





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ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA Stoyeven Konskige City, Sonicar Peth-Typic, Pethala, Tal, Portolo, Der Felbrear. Pin-416 201 (Maharashira) Phone : 9146999560

O Approved By AICTE, New Delhi O Recognized by GovL of Maharastere & DTE O Permanent Affiliation by Dr. Bahasaheb Arabediar Technological University. Parend

		ME TABLE 2 NG ARRANG		
DATE	CLASS	A106 A108		DWA102
	S.Y.	-	-	1 To 52
10/11/23	T.Y.	1 To 35	36 To 50	-
	B.Tech.	1 To 35	36 To 65	
	S.Y.		-	1 To 52
24/11/23	T.Y.	1 To 35	36 To 50	-
	B.Tech.	1 To 35	36 To 65	-

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

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

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject – Surveying (BTCVC305)

Marks -10 Time - 10.40 am-11.10 am

Class – Second Year B. Tech Civil Date - 24/11/2023 Name of Student :

PRN No. Roll No.

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

Q.	Question	Ans	со	PO	Mks
No 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.			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 byA) Tracing paper methodB) Bessels methodC) Lehman's methodD) all of the above		2		1
6.	A 'level line' is aA) horizontal lineB) line parallel to the mean spheriodal surface of earthC) line passing through the centre of cross hairs and the centre of eye pieceD) 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 onlyB) back sight onlyC) foresight and back sightD) foresight and intermediate sight		3		1
9.	The height of instrument is equal toA) R.L. of bench mark + back sightB) R.L. of bench mark + fore sightC) R.L. of bench mark + intermediate sightD) 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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**Civil** Engineering Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala, Dist. Kolhapur. (416 201)



#### model Answer Sheet Holywood Academy's



SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject – Surveying (BTCVC305)

Marks -10 Time -10.40 am- 11.10 am

Class – Second Year B. Tech Civil Date - 24/11/2023 Name of Student :

PRN No. Roll No.

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

Q.	Question	Ans	CO	PO	M
No 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.	В	2		1
2.	A) Focus B) Centre C) Orient D) Level	В	2		1
3.	Which of the below is used for leveling a plane table?A) Plumb bobB) Spirit levelC) CompassD) U-frame	В	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	D			
5.	A) radiation B) intersection C) received by Three point problem can be solved by	D	2		1
	A) Tracing paper method     D) all of the above       C) Lehman's method     D) all of the above	В	3		1
6.	<ul> <li>A 'level line' is a</li> <li>A) horizontal line B) line parallel to the mean spheriodal surface of earth</li> <li>A) horizontal line B) line parallel to the mean spheriodal surface of earth</li> <li>C) line passing through the centre of cross hairs and the centre of eye piece</li> <li>D) line passing through the objective lens and the eye-piece of a dumpy level</li> </ul>	D	3		
7.	ring the parallax,	D	-		
)	B) the image of the object D) both (12) and (B)	С	3		
8.	C) either (A) of (B)The following sights are taken on a "turning point"A) foresight onlyB) back sight onlyC) foresight and back sightD) foresight and intermediate sight		3		
9.	The height of instrument is equal to B) R.L. of bench mark + fore sight	A	3		
	The height of instrument of	A	3		
10	If the R.L. of a B.M. is 100.00 m, the eating of the forward station is         1.870 m, the R.L. of the forward station is         0.0245 m       c) 100.655m         d) 101.870m				

PRINCIPAL Sanjeevan Group Of Institutions (Degree Engg.), Somwarpeth, Panhala, Noihapur - 416 201 (M.S.)

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DIE Code : ENGBLF



#### **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.

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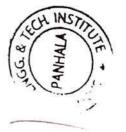
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1	HOD - Electrical	
2	HOD – Civil	
3	HOD – Computer	-
4	HOD – Mechanical	
5	HOD - BSH	

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

**Examination Coordinator** 







DR			Holv-woo	d Academy, NOID	BICAL UNIVERSITY, LONERE
0	C.	NITERVAN ENCI	NEEDING &	TECHNOLOGY	INSTITUTE, PANHALA.
	51	INJEEVAN ENGI	NEEKING C		A PLE October-2023
	MI	D SEMESTER	EXAMIN	ATION TIME	TABLE - October-2023
- and the second				A.Y. 2023-24	Subject Name
Day & Date	Time	Branch Name	Class	ounjes	Engineering Mathematics –III
		Computer		BTBS301	Mathematics – III
	10.00 am	Civil	0.	BTBS301	Engineering Mathematics-III
	То	Electrical	01	BTBS301	Engineering Mathematics III
	11.00am	Mechanical	01	BTBS301	Engineering Mathematics - I
		First Year	Ali Div	BTBS101	
Thursday,		Computer	SY	BTCOC302	Discrete Mathematics
26/10/2023		Civil	SY	BTCVES302	Mechanics of Solids
	02.30 pm	Electrical	SY	BTEEC302	Electrical Machines-I
	То	Mechanical	SY	BTMEC302	Fluid Mechanics
	03.30 pm		Div A & B	BTBS102	Engineering Physics
		First Year	Div C	BTBS102	Engineering Chemistry
		Computer	SY	BTCOC303	Data Structures
ł d		Civil	SY	BTCVC303	Building Construction & Drawing
	10.00 am	Electrical	SY	BTEEC303	Electrical & Electronics Measurement
	То	Mechanical	SY	BTMC303	Thermodynamics
	11.00am			BTES103	Engineering Graphics
Friday,		First Year	Div C	BTES103	Engineering Mechanics
27/10/2023		Computer	SY	BTCOC304	Computer Architecture & Organization
21110/2020		Civil	SY	BTCVC304	Hydraulics -I
	02.00 pm	Electrical	SY	BTES305	Engineering Material Science
	То	Mechanical	SY	BTMES304	Material Science & Metallurgy
	03.00 pm		Div A & B	BTHM104	Communication Skills
		First Year	Div C	BTES104	Computer Programming in C
	10.00 am	Computer	SY	BTCOC305	(b) Object Oriented Programming in Java
Saturday,	То	Civil	SY	BTCVC305	Surveying
28/10/2023	11.00am	First Year	Div A & B	BTES105	Energy and Environment Engineering



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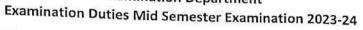


DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Sanjeevan Engineering and Technology Institute, Panhala

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Examination Department

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Sr. No.	Dept	Name of Staff	Role	26/10	/23	27/10	0/23	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		Mrs. Nilofer Khan	Jr. Supervisor	1	S. Same	and the state of the state of the	Foldman (1)	-1-	· · · · · · · · · · · ·	
2		Mrs. Afasana Sayyad	Jr. Supervisor		1		1	and the second		â.
3		Mrs. Sameena Sayyad	Jr. Supervisor	1	and the			1		
4		Mr. Pradip Patil	Jr. Supervisor	1			- 1	and an an and a second		
5		Mr. Ajit Patil	Jr. Supervisor	1			1	1	10000 Cal	
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				X
)		Mr. Dhananjay Patil	Jr. Supervisor			1		1		12
0		Mr. Deshmukh Sardar B.	Jr. Supervisor		1					
	1	Mrs. N A Sayyad	Jr. Supervisor			1		1		
	Ν	Mr. P D Pange	Jr. Supervisor		1	1				
	N	Mr. Bhandare Arvind	Jr. Supervisor		1					
	N	Ir. Babar Samrat Ashok	Jr. Supervisor		1	1			1	
	N	Ir. Mevekari Jabbar Siraj	Jr. Supervisor		1	1			1	4
	M	Ir. Ghadage Yuvraj	Jr. Supervisor				1			
1	M	lrs. Gauri Chavan	Jr. Supervisor				1			
8	M	lr. N A Magdum	Jr. Supervisor				1			
-		Irs. M. N Chavan	Jr. Supervisor	& TEC	5		1		35	and and
				PANTIAL PANTIAL	ANNI			Sarriee	PRINC	N IPAL (Tech, Institute hala - 416 201



	DR. BABASAHEB AMBEDKAR TECHN	VICAL UNIVERSITY, LONERE.
10	DR. BABASAHEB AMBEDRAR TECHT Sanjeevan Engineering & Techt	ology Institute, Panhala.
	Department of Civil	Engineering
	Mid Semester Exam	ination 2023
~		ACADEMIC YEAR: 2023-24
~	SEMESTER: III	PRN.:
<b>H</b>	NAME OF STUDENT:	Time : 2.00pm-3.00pm
5 SULLIVAN LINE NO.	CLASS: S.Y. DAY & DATE: FRIDAY 27/10/2023	Marks: 20
A HONOLOGI ANITUTI	DAY & DATE: FRIDAY 2//10/2023	ICS I BTCVC 304
	SUBJECT NAME WITH CODE: HYDRAUL	ICS I BTCVC 304

Instructions to the Students:

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

Question	Sub	Question	CO	PO	BL	Mark
No.	Question	Attempt the Following			4×1	=4
1.	a.	For an incompressible fluid does density vary with			BL1	1
		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				
	b.	and pressure The pressure at any given point of a non-moving			BL2	1
	0.	fluid is called the				
		a) Gauge Pressure b) Atmospheric Pressure				
		c) Differential Pressure				
Ļ		d) Hydrostatic Pressure			BL3	1
	c.	Calculate the specific weight and weight of 20 m <sup>3</sup> of petrol of specific gravity 0.6.			DL3	1
		a) 5886,117.2				
		b) 5886,234.2				
		c) 11772,117.2 d) None of the mentioned				
	d.	Whose pressure can be determined by the bourdon			BL4	1
		tube pressure gauge? a) Solids				
		b) Fluids				
		c) Only Gas				
		d) Only liquids				



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

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



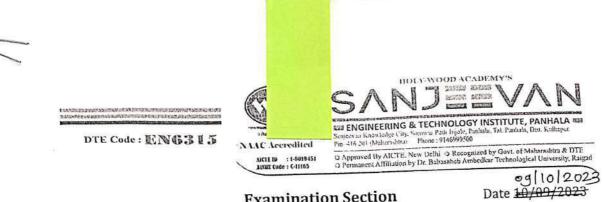
			3 ×2 =	= 6
-		Solve Any Two Of The Following	BL3	3
2.	а.	Cive classification of Fluid nows.	BL4	3
		What are the types of fluids?	BL5	3
	b.	State and explain Pascal's law		
	с.		5 ×2 :	= 10
2		Solve Any two of the following	BL5	5
3	a.	Derive Bernoulli's equation from Euler's equation	BL5	5
	b.	a continuity equalion	BL6	5
	с.	Calculate the capillary rise in a glass tube of 205 mm dia. when immersed vertically in a)water b) mercury		
		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°.		

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		و وجاز وحالي ال	Roll No. ;		
Class : Subject :			Date :		
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**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.

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

### 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
- 6. Arrive at least 15 minutes before the exam is due to start and wait outside until you are allowed pens with you. 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

Examination Coordinator

Academic Dean



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	MID TERM EXA Branch Name	INEERT	wood Academy, NG & TECHNOLO	OGY INSTITUTE, PANHALA.
	MID TERM EXA Branch Name	MINATIC		A V 2023-24
Time	Branch Name	MINATIC	N - October-2023	TIME TABLE A.T. 2020 2.
Time		Class	Subject Code	Subject Name
		TY	BTCOC501	Database Systems
		B.Tech	BTCOC701	Artificial Intelligence
			BTCVC 501	Design of Steel Structures Design of Reinf. & Prestressed Concrete Structure
10.00 am	Civii	B.Tech	BTCVC701	Design of Reint. & Prestressed Condicto Structure
To 11 00am	Electrical	TY	BTEEC501	Power System Analysis
11.00411	Liberridar			High Voltage Engineering Heat Transfer
	Mechanical			Mechatronics
		Concession of the local division of the loca	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER	Theory of Computation
	Computer	R Tech		Cloud Computing
02 30 nm				Geotechnical Engineering
25 C	Civil			Infrastructure Engineering
	Electrical	TY	BTEEC502	Microprocessor and Microcontroller
2005 B.205 M.200	Electrical			Power System Operation & Control
	Mechanical	B.Tech	BTMEC702	Industrial Engineering and Management
A CARLES HARRING & CONTRACTOR OF THE	Computer	TY	BTCOC503	Software Engineering
	Computer	the second se		c) Big data Analytics Structural Mechanics –II
10 00 am	Civil	TY	BTCVC 503	Construction Techniques
То			BTEEC503	Power Electronics
11.00am	Electrical	B Tec		Electrical Utilization
		TY	BTMC503	Theory of Machines -II
2	Mechanical	B.Tec	h BTMEC703D	Advanced IC Engines
	Computer	TY	BTCOE504	a) Human Computer Intereaction
02 30 pm	Computer		h BTCOE704	a) Cryptography and Network Security Concrete Technology
	Civil			Professional Practices
	•		BTEEPE504	(A) HVDC
	n Electrical	B.Tec	h BTEEOE704	Mechantronics
	Mashaniaal	TY	BTAPE504D	Automobile Engineering
	Mechanical		ch BTMEC704C	Pant Maintenance
		TY	BTHM505	(b) Business Communication
	Computer	D.Te		b) Deep Learning Project Management
	Civil			Bridge Engineering
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11 00-1	Electrical	BTe		
1 SAS			BTMOE505C	Human Resource Management
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Contraction of the second s	m Civil	B.Te	ch BTCVOE706	
03.30 p	Mechanica		BTMEC502	Applied Thermodynamics
	To 11.00am 02.30 pm To 03.30 pm 10.00 an To 11.00an 3	Mechanical02.30 pm To 03.30 pmComputer02.30 pm To 03.30 pmCivil Electrical10.00 am To 11.00 am To 03.30 pmComputer02.30 pm To 03.30 pmCivil Electrical02.30 pm To 03.30 pmCivil Civil Electrical10.00 am To 11.00 am To 11.00 am To 11.00 am To 11.00 am To CivilComputer10.00 am To 03.30 pmCivil Civil Mechanical02.30 pm To 03.30 pmCivil Civil Civil Civil	11.00amElectricalB.TechMechanicalTYB.Tech02.30 pmComputerToComputer03.30 pmElectricalElectricalTYB.Tech03.30 pmElectrical10.00 amCivilToTY11.00amCivilToElectricalToTY10.00 amCivilToElectricalToTY10.00 amCivilToComputer02.30 pmCivilToComputerToTYB.Tect03.30 pmCivilToTY10.00 amCivilToTY11.00amCivilToTYElectricalTYB.TectMechanicalTYB.TectMechanicalTYB.TectToCivilToB.Tect10.00 amCivilToElectricalToTYB.TeComputerTYB.TeComputerTYB.TeCivilTYB.TeCivilTYB.TeToElectricalToB.TeToElectricalToB.TeToToToElectricalToToToElectricalToToToElectrical <td>11.00amElectricalB.TechBTEEC701MechanicalTYBTMC501B.TechBTMEC701B.TechBTCOC502B.TechBTCOC50203.30 pmCivilTYBTECC02B.Tech03.30 pmElectricalElectricalB.TechB.TechBTECC02MechanicalB.TechB.TechBTECC502B.TechBTECC02MechanicalB.TechB.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTEC02703MechanicalTYBTCOC503B.TechB.TechBTCOC504B.TechBTCOC704ToCivilToComputerToTY11.00amCivilToTY11.00amCivilToTY11.00amElectricalToTY11.00amCivilToTY11.00amElectricalToTY11.00amElectricalToTY11.00amTYToTY11.00amElectricalTo</td>	11.00amElectricalB.TechBTEEC701MechanicalTYBTMC501B.TechBTMEC701B.TechBTCOC502B.TechBTCOC50203.30 pmCivilTYBTECC02B.Tech03.30 pmElectricalElectricalB.TechB.TechBTECC02MechanicalB.TechB.TechBTECC502B.TechBTECC02MechanicalB.TechB.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTCOC503B.TechBTEC02703MechanicalTYBTCOC503B.TechB.TechBTCOC504B.TechBTCOC704ToCivilToComputerToTY11.00amCivilToTY11.00amCivilToTY11.00amElectricalToTY11.00amCivilToTY11.00amElectricalToTY11.00amElectricalToTY11.00amTYToTY11.00amElectricalTo

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No. D	)ep	Name of Staff	Role			1	13/10/2023	Service and the service of the servi	to 0	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	Faculty sign
<b>月</b> 日日 日本日日		Mr. Chavan Shrivallabh Sarjerao Akshata Tonnne	Jr. Supervisor			1 1 1	1			
Ci	ivil	Rutuja Bhore Miss. Momin Anarkali Majid	Jr. Supervisor		19-12					

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Too I	DR. BABASAHEB AMBEDKAR T	ECHNICAL UNIVERSITY, LONERE.			
The second second	Sanjeevan Engineering & Technology Institute, Panhala.				
-	Department of Civil Engineering				
The second se		Examination 2023			
	SEMESTER: VII	ACADEMIC YEAR: 2023-24			
- white Alenna	NAME Of STUDENT:	PRN.:			
Solution 2	CLASS: Final Year B. Tech.	Time : 10.00am -11.00am			
	DAY & DATE:	Marks: 20			
Market Carl	SUBJECT NAME WITH CODE: Desig Structure	n of Reinf. & Prestressed concrete			

Instructions to the Students:

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- 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.	Question	Attempt the Following			4×	1 =4
1.	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
	с.	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.	1	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
	с.	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

**Civil Engineering** SanJeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist, Kolhanner, 6410-2011

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



	DR. BABASAHEB AMBEDKAR TECH	NICAL UNIVERSITY, LONERE.
	Sanjeevan Engineering & Tech	
and the second	Department of Civi	l Engineering
~	Mid Semester Exam	nination 2023
10000	SEMESTER: VII	ACADEMIC YEAR: 2023-24
1010-mond Academ	NAME OF STUDENT:	PRN.:
(W_)*	CLASS: Final Year B. Tech.	Time :
1 BERTERAL	DAY & DATE: 12 10 2023 -	Marks: 20
	SUBJECT NAME WITH CODE: Design of 1 Structure	Reinf. & Prestressed concrete

Key.

nswer

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
42	1.		Attempt the Following			4×	1 =4
		a.	8.				1
		b.	MCQ.				1
		с.	MCQ.				1
		d.	MCQ.			1	1
			ж. ж				
	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
			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
			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

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

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



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ochig on beam is increased. Longitudinal q -transverse Reinf 6) Longitudinal steel is uspical steed present in column. This steel provided to toke optial lood on longitudi column. Min bor dia. of longitudinal steel is deel 12 mm. Min 0.8%. 4 TODE GY. Steel is provided as a francoss longitudinal. steel. sice : PU: O.4 fek Ac + O.67 fr Ast. Ast in above eqn gives longitudinal steel. approvense steel Civil nology Institute It is more steel njeevan En omwar Peth. Fannoia: Jost. Kolhapur. (416-201)-1 2 11 10 - 9

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Subject (BTCVC70I) Design of Reinforced & Prestressed Concrete Structures

Name

PATIL

DAREKAR ATUL SARJERAO

ASHWIN ARUN SAWANT

DADASAHEB NAVNEET DHANGAR

HARSHAVARADHN JAGANNATH

JAYESH RAJARAM SOLANKURKAR

SHABDALI SHIVAJI CHOUGULE

SHIVAM VINOD JADHAV

SHIVAM ARUN CHAVAN

SUPRIYA SUBHASH FUTANE

SUMIT SURESH PATIL

NIKAM VIVEK VISHWAS

NIKHIL NILESH MISAL

PATIL VINAYAK VILAS

PATIL ROHIT DINKAR

IMPAL DHANRAJ JANARDAN

SHINDE SANKET SURYAKANT

CHOUGALE SHUBHAM BABASO

DESHMUKH RUSHIKESH ANANDA

JAMDADE AMIT UTTAM

MANE AADITYA BAJIRAO

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Faculty Name: Jobbar Siraj Mevekari

(CA)

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Max:20

Continuous Assessment

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

Mid-Semester Exam (MSE) Max:20

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PRINCIPAL 10 Sanjeevan Group Of Institutions Somwarpeth, Panhala, Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

HO Civil Engineering Sanjeevan Engineering & Technology Institute Sommer Peth. Panhola. Dist. Kolhabur :416 2019

Sr.Ne	D PRN	Name	Continuous Assessment (CA) Max : 20
22	12163151191510	PATIL SUSHANT MOHAN	16
23	T2163151191511	KUIGADE SHIVAM SANJAY	18
24	12163151191512	KARANDE VIJAY UMRAO	10
25	T2163151191514	KAMBLE RUSHIKESH SURESH	18
26	T2163151191515	PATIL SARTHAK SANGRAM	18
27	72163151191516	KATKAR SOHAM SANJAY	18
28	T2163151191518	DESHMUKH PRASHANT SARJERAO	18
29	72163151191519	BOKKA SURYA PRAKASH SRINIVASRAO	10
30	T2163151191521	PATIL RAJWARDHAN SUBHASH	n
31	T2163151191522	DESHMUKH RAHUL PRAKASH	14
32	T2163151191524	KAMBLE SAURABH SANJAY	16
33	72163151191525	NARKE PIYUSH JAYAVANT	16
34	T2163151191526	GURAV PRANAV PRAKASH	16
35	T2163151191527	BALAP ROHIT SANJAY	14
36	T2163151191528	PATIL TUSHAR SHIVAJI	16
37	T2163151191531	PATIL AADITYA BALASO	16
38	T2163151191532	PATIL PRUTHVIRAJ BABASAHEB	16
39	T2163151191533	NIRUKHE SHIVRAJ SARJERAO	16
40	T2163151191534	DEVANE SHIVAM NANDKUMAR	16
41	T2163151191535	GORE GANESH SHRIMANT	10
42	T2163151191536	PAWAR ASHISH GORAKSHA	16
43	T2163151191537	KHIRUGADE SUMEET SUNIL	18
44	T2163151191539	PATIL AKASH BABAN	18
45	T2163151191541	10PHANDE MADHAV SUNIL	18
46	T2163151191542	JUGALE ABHISHEK CHANDRASHEKHAR	31
47	T2163151191543	JOUNDAL RUSHIKESH BABASO	18

Mid-Semester Exam (MSE) Max:20 ti TI Re furth alap 

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Sr.No	PRN	Name
48	T2163151191545	GAIKWAD RUTIK SUNIL
49	T2163151191546	PATIL ADITYA DEEPAK
50	T2163151191547	MAHADIK SWAROOP SUBHASH
51	T2163151191548	GAIKWAD KEDAR SURYAKANT
52	T2163151191550	KAMBLE AJIT BHIKAJI
53	12163151191552	OTARI YASH MANOJ
54	T2163151191554	PATIL AJINKYA NANDKUMAR
55	T2163151191555	PATIL ROUNAK CHANDRASHEKHAR
56	T2163151191556	PATIL YOGESH YUVRAJ
57	T2163151191558	SONAWALE OMKAR TANAJI

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Mid-Semester Exam (MSE) Max:20

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Faculty Name : Jabbar Sj aj Mevekari Faculty Signature; Faculty Confirmation On : 03- Januar, -2024, 10:28 AM

FL HOD Name : MALLIKAR JUNAYYA NINGAYYA HIREMATH HOD Signature :

Continuous Assessment

(CA)

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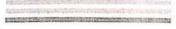
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**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

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DTE Code : ENG: 1.5



**NAAC** Accordited

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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 2023till 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

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

Dr. M.N.Hiremath

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

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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

DATE	TIME	S.Y.	T.Y.	B.Tech
	10:00AM To 10 30AM	MOS	DSS	DRPS
	10:40AM To 11:10AM	HYD-I	GT	pp
26/09/23	11:20AM To 11 50AM	MIII	SM-II	IE
20/09/23	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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Civil Engineering Sanjeewar Engineering & Tacheology Institute Somwar Path, Pennala, Dist, Kalhabur (414 2011

ART RS8 Nmm. Ni.4.X EPS -MR-

PRINCIPAL Sanjeevan Group Of Institutions (Degree Engs.), Somwarpeth, Panhala, Tal. Panhala, Diat. Kalhapur - 416 201 (H.S.)





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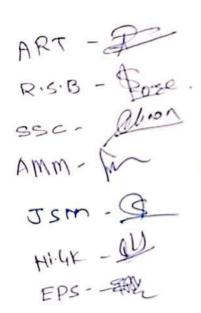
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		IME TABLE 2		
DATE	CLASS	A106	A107	A108
	S.Y.	-	-	1 To 11
26/09/23	T.Y.	1 To 35	36 To 50	
Ĩ	B.Tech.	-	1 To 35	36 To 65

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

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HOD Clvil Engineering Sanjeevan Engineering & Technology Instituts Somwar Path, Padhata, Dist, Kolhaour, 1415 2019



PRINCIPAL

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DTE Code : ENG3 15

NAAC Accordited

AICTE ID : 1-5019151 AISTE Code : 1-11165 INTELENGINEERING & TECHNOLOGY INSTITUTE, PANHALA IMM Streeven Mandelake Str. South a Fail Conc. Entrate for Panishe des Ballagur Pia 416 JUL Matemática Phone . 9140094500

O Approved By MCTE, New Delby O Discognized by Fairs of Malorastera & DTE O Periodicial Affiliation by Dr. Babaschele Ambedian, les and operal traversity, Raegid

		TABLE 2023- RVISION CHAF	and the second se	
DATE	TIME	ME A106 A107		A108
	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
26/09/23	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)

15/9/23 HOD

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

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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 Date - 26 /09 /2023 Name of Student :

Subject – Mechanics Of Solid (BTCVES302) PRN No. Roll No.

Marks -10 Time - 10.00 to 10.30am

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

2. <u>5</u> 3. 4.	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 Strain is a quantity. A) Scalar B) Vector C) Dimensionless D)None of the above 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. The law which states that within elastic limits strain produced is proportional to the stress producing it is known as		1	1	1
3. 4.	A) Scalar       B) Vector       C) Dimensionless       D)None of the above         Upon the removal of a deforming force, the inability of the body to regain its original shape and size is known as			1	1
4. t	formly distributed load is always       1       1       1       1         near       B) Parabolic       C) Cubical       D) Circular       1       1         is aquantity.       alar       B) Vector       C) Dimensionless       D)None of the above       1       1         the removal of a deforming force, the inability of the body to regain its       1 stape and size is known as       1       1         asticity       B) Undeformation       C) Elasticity D) Hook's constant.       1       1         w which states that within elastic limits strain produced is proportional to ses producing it is known as       1       1         moulli's law       B) Hooke's law       1       1         stic point       B) Plastic point       1       1         aking point       D) Yielding point       1       1         ein the stress-strain curve, the hooke's law is valid?       1       1         ain hardening region       B) Necking region       1       1         stic range       D) Valid everywhere       1       1         material has identical elastic properties in all directions, it is called       1       1         stic       B) Isotropic       C) Plastic       D) Homogeneous       1       1				
t				1	1
	A) Bernoulli's law B) Hooke's law		l	I	1
	C) Breaking point D) Yielding point		1	1	I
	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
			1	1	1
	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
	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	- Nor	-	1	1

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

PRN No.

C.A.1

Class - Second Year B. Tech Civil Date - 26 /09 /2023 Name of Student :

Subject – Mechanics Of Solid (BTCVES302)

Roll No.

Marks -10 Time - 10.00 to 10.30am

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

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Scalar       B) Vector       C) Dimensionless       D)None of the above         Son the removal of a deforming force, the inability of the body to regain its ginal shape and size is known as	A B D	1		1
ginal shape and size is known as	B	1	-	
stress producing it is known as         Bernoulli's law       B) Hooke's law         Stress law       D) Poisson's law         be stress at which extension of a material takes place more quickly as         mpared to the increase in load is called         Elastic point       B) Plastic point         Breaking point       D) Yielding point         be stress-strain curve, the hooke's law is valid?         Strain hardening region       B) Necking region	D			I
mpared to the increase in load is called         Elastic point         Breaking point         D) Yielding point         here in the stress-strain curve, the hooke's law is valid?         Strain hardening region         B) Necking region		1		i
Strain hardening region B) Necking region	C			
Elastic range D) Valid everywhere		1	1	1
the material has identical elastic properties in all directions, it is called Elastic B) Isotropic C) Plastic D) Homogeneous	8	1	1	1
bes the value of stress in each section of a composite bar is constant or It changes in a relationship with the other sections as well It changes with the total average length It is constant for every bar It is different in every bar in relation with the load applied and the cross stional area	D	1	1	1
nat will be the unit of compressive stress? N B) N/mm C) N/mm² D) Nmm	С	1	1	1
odulus of Rigidity is Axial stress divided by axial strain Shear stress divided by shear strain Increase or decrease in volume divided by original volume Direct stress divided by volumetric strain	в	1	1	1
	changes with the total average length is constant for every bar is different in every bar in relation with the load applied and the cross onal area at will be the unit of compressive stress? B) N/mm C) N/mm <sup>2</sup> D) Nmm lulus of Rigidity is Axial stress divided by axial strain Shear stress divided by shear strain ncrease or decrease in volume divided by original volume	changes with the total average length       D         is constant for every bar       is different in every bar in relation with the load applied and the cross         onal area       D         at will be the unit of compressive stress?       D) Nmm         B) N/mm       C) N/mm²       D) Nmm         Iulus of Rigidity is       Axial stress divided by axial strain       B         Shear stress divided by shear strain       B	changes with the total average length is constant for every bar is different in every bar in relation with the load applied and the crossD1is different in every bar in relation with the load applied and the cross onal areaD1at will be the unit of compressive stress? B) N/mmD) NmmC1Iulus of Rigidity is Shear stress divided by shear strain ncrease or decrease in volume divided by original volume Direct stress divided by volumetric strainB1	changes with the total average length       D       I       !         is constant for every bar       is different in every bar in relation with the load applied and the cross       D       I       !         is different in every bar in relation with the load applied and the cross       D       I       !       !         at will be the unit of compressive stress?       B) N/mm       C) N/mm²       D) Nmm       C       I       !         lulus of Rigidity is       Axial stress divided by axial strain       Shear stress divided by shear strain       B       I       !         Durect stress divided by volumetric strain       D) Nume       D       I       !

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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. Toch 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

0	Question	Ans	CO	PO	Mk
- The	term is used to mean the free passage of clean air			Dell harrison	
l in a	structure.				
	rculation b) Ventilation		4	1	
	ssipation d) Condensation				
It is	quite evident that the incoming air for ventilation should be	-			
	_ in summer and in winter before it enters the				
roon			4	1	
	ol, warm b) warm, cool				
_ c) hu	mid, dry d) dry, humid				
In_	system, the use is made of doors, windows.				
vent	lators and skylights to make the room properly ventilated.				
a) Ar	tificial ventilation b) Natural ventilation		4	1	
c) Ai	conditioning d) Mechanical ventilation		1		
Exh	aust system, supply system, air conditioning, etc. comes				
unde	r type of ventilation system.				
a) Na			4	1	
	n made dh Doors				
One p	pipe system is cheaper than the single stack system for the				
drain	age of buildings.		3	3 1	
a) Tru	b) False				
Which	pipe is mostly used for carrying cold water?				
	pper pipe b) Steel pipe		3	1	
c) PV(			5	T	
	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?				
c) Lig	able and corrosion free b) Durable and economical ht weight and economical d) Light weight & corrosion		3	1	
free	d) Light weight & corrosion		5	1	
-	building practices include				
a) On					
c) On	- · · · · · · · · · · · · · · · · · · ·		5	1	
Which			0	-	
a) To re	of the following is not the purpose of a green building?			[	-
	b) to minimize damage		5 t	VI	
<u>uj cj i</u>	d) None of the above		15	lan.	-
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ng a rechnology Institute Somwar Peth. Panhala, Dist. Kolhapur. (416 201) (Degree Engg.), Somwarpeth, Funda, Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)





## Holy-wood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

Class - Second Year B. Tech Civil Date - 10/05/2024 Name of Student:

Subject – Building Planning and Drawing (BTCVC 401) Marks -10 Time - 09:30 am to 10:00 am 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	Mk																									
	The term is used to mean the free passage of clean air																													
1	in a su ucture.	-																												
	a) Circulation b) Ventilation	В	4	1																										
	c) Dissipation																													
	It is quite evident that the incoming air for ventilation should be																													
	in summer and in winter before it enters the																													
2	room.	A	4	1																										
	a) cool, warm b) warm, cool		1	-																										
	c) humid, dry d) dry humid																													
	In system, the use is made of doors, windows,																													
3	ventilators and skylights to make the room properly ventilated.																													
3	a) Artificial ventilation b) Natural ventilation	В	4	1																										
	c) Air conditioning d) Mechanical ventilation																													
4	Exhaust system, supply system, air conditioning, etc. comes	P																												
	under type of ventilation system.																													
	a) Natural b) Mechanical	В	4	1																										
	c) Man made d) Doors																													
5	One pipe system is cheaper than the single stack system for the		1																											
	drainage of buildings.	В	3	1																										
	a) True b) False																													
in an	Which pipe is mostly used for carrying cold water?																													
6	a) Copper pipe b) Steel pipe	С	3	1																										
	c) PVC pipe d) Lead pipe	-																												
_	Which pipe is used for carrying cold and hot water?																													
7	a) Poly propylene b) Poly propylene random co-polymer	В	3	1																										
	c) High density poly ethylene d) Low density poly ethylene																													
	State the two advantages of PVC pipes?																													
8	a) Durable and corrosion free b) Durable and economical	D	3	1																										
	c) Light weight and economical d) Light weight & corrosion free			1.51																										
	Green building practices include																													
9	a) Only energy efficiency. b) Only recycled materials	D	5	1																										
	of Only Environmental Protection di All of these		1	1																										
10	Which of the following is not the purpose of a group little																													
10	h lo minimize 1	D	-	, 1																										
	c) Re-use of waste materials d) None of the above	D	5	11																										

Civil Engineering Sanjeevan Engineering & Technology Institute Somwar Peth, Panitala, Dist, Kothapur, 1416 2011

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

	DR. BABASAHEB AMBEDKAR TECHS Sanjeevan Engineering & Techn	DIG BY
	Department of Civil	Eugineering
WHIND TUNE	Mid Semester Exam	ACADEMIC YEAR: 2023-24
	SEMESTER: IV	
woud Acaga	NAME OF STUDENT:	PRN.:
130 0000	CLASS: Third Year B. Tech.	Time :
- The state	DAV & DATE: Friday - 19 4124	Marks: 20
The state start	SUBJECT NAME WITH CODE: Transport	ation 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	РО	BL 4×	1 =4
	Question	Attempt the Following	1		-	1
1.	a.	The stopping sight distance does not depend on				
		<ul> <li>a) Break reaction time b) Visibility limit</li> <li>c) Head light distance d) Overtaking sight distance</li> </ul>	-			1
	b.	The camber required depends on a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall				
	с.	a) Temperature susceptibility b) Grade a) Viscosity d) Ductility				
21	d.	<ul> <li>c) viscosity</li> <li>The function of expansion joint in rigid pavement is</li> <li>a) Relieve wrapping stresses</li> <li>b) Relieve shrinkage stresses</li> <li>c) Resist stresses due to expansion</li> </ul>				
		d) Allow free expansion				
		The Following			3	$3 \times 2 = 6$
2.		Solve Any Two Of The Following	T	T	1	3
	a.	Write types of sight distances, in details.		_		
	b.	Write note on PIEV theory.				3
	с.	Explain in detail classification of road?				3

**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth, Pannala, Dist, Kolhapur, (416 2011

HOD

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



		5 ×2	2 = 10
3	Solve Any two of the following		5
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.		2 197
<b>b</b> .	Draw the section of pavement and explain its elements	5	5
	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 perceptionreaction 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.

 $SSD=V\times tr+V22\times g\times f\setminus text\{SSD\} = V \setminus times t_r + \int (V^2) \{2 \setminus times g \setminus times f\} SSD=V\times tr + 2\times g\times fV2$ 

where:

1

- 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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## Holy-wcod Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 1 Subject – Building Planning and Drawing (BTCVC 401)

Class - Second Year B. Tech Civil Date - 28 /02 /2024 Name of Student:

Roll No.

PRN No.

Marks -10

Time - 02:00 pm to 02:30 pm

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

No	Question	Ans	co	PO	Mk			
	is the built-up covered area of a building measured at							
	floor level of any story.		1	1				
1	a) Covered area b) Carpet area			510				
2	c) Total area d) Plinth area							
	area of a building is the area of verandahs,							
	passage corridors, balconies, porches, etc.		1	1				
2	a) Floor area b) Horizontal circulation area		-					
	c) Vertical circulation area d) Verandah area			-				
	of building is the useful area or liveable area or	6						
	lettable area. This is the total floor area minus the circulation							
GR I	area, verandahs, corridors, passages, staircase, lifts, entrance		1	1				
3	hall, etc. minus other non-useable areas.		-	÷				
	a) Plinth area b) Floor area							
	c) Carpet area d) Circulation area							
	The placing of various rooms or units of a structure in proper							
	correlation of their functions and in due proximity with each							
4	other is known as		1	1				
т	a) Aspect b) Prospect							
	c) Circulation d) Grouping							
	What is the level below window called?							
5	a) Pane level b) Lintel level	1 1	1	1	1	1	1	
	c) Sill level d) Plinth level							
	Which is not a type of building?							
б	a) Educational Building b) Mercantile Building		1	1				
	c) Institutional Building d) Domestic building							
	Which is not included in building codes?							
7	a) Mechanical integrity b) Safety		1	1				
	c) Providing employment d) Structural integrity							
	Which among the following is not a principle of planning?*		-					
8	a) Furniture requirements b) Aspect		1	1				
	c) Prospect d) Respect		-	1	1			
	Green building practices include		-		+			
9	a) Only energy efficiency. b) Only recycled materials		1	1				
	c) Only Environmental Protection d) All of these		1	1	1			
	Residential building includes		-	-	1-			
10	c) Bungalows b) Apartments							
	d) Row Housings d) All of above		1	1				

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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 Date - 28 /02 /2024 Name of Student:

Subject – Building Planning and Drawing (BTCVC 401)

Time - 02:00 pm to 02:30 pm

Marks -10

Somman - Criterenting - -----

PRN No. Roll No.

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

#### **Answer Solution**

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	D	1	1	
	c) Total area d) Plinth area				
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	в	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	С	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 levelb) Lintel levelc) Sill leveld) Plinth level	с	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	с	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. c) Only Environmental Protection Basid	D	1	1	L
10	Residential building excludes         a) Bungalows       b) Apartments         b) Row Housings       d) All of above	D			

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject - Surveying (BTCVC305)

Marks -10 Time – 10.40 am-11.10 am

Class – Second Year B. Tech Civil Date – 24/11/2023 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.	Question	Ans	C0	PO	Mks
No 1.	the d				1
2.	A plumbing fork is used to the plane table. A) Focus B) Centre C) Orient D) Level		2		1
3.	1 C 1 - lines riors table?		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 byA) Tracing paper methodB) Bessels methodC) Lehman's methodD) all of the above		2		1
6.	A 'level line' is aA) horizontal lineB) line parallel to the mean spheriodal surface of earthC) line passing through the centre of cross hairs and the centre of eye pieceD) 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 onlyB) back sight onlyC) foresight and back sightD) foresight and intermediate sight		3		1
9.	The height of instrument is equal toA) R.L. of bench mark + back sightB) R.L. of bench mark + fore sightC) R.L. of bench mark + intermediate sightD) 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



Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject – Surveying (BTCVC305)

Marks -10 Time -10.40 am- 11.10 am

Class – Second Year B. Tech Civil Date – 24/11/2023 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.	Question	Ans	CO	PO	M
lo 1.	Plane table (PT) surveying is a method.	A	2		
	A) Graphical B) Linear C) Circular D) Angular	B	2		
2.	A plumbing fork is used to the plane table. A) Focus B) Centre C) Orient D) Level				
	and the latencie used for leveling a plane table?	В	2		1
3.	A) Plumb bob B) Spirit level C) Compass D) C and	В	2	-	
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called by the sector of the location of the known station by traversing	D			
5.	A) radiation B) intersection Three point problem can be solved by	D	2		
	A) Tracing paper method D) all of the above	В	3		
6.	<ul> <li>C) Lemman's mean of the control of the mean spheriodal surface of earth</li> <li>A) horizontal line B) line parallel to the mean spheriodal surface of earth</li> <li>C) line passing through the centre of cross hairs and the centre of eye piece</li> <li>D) line passing through the objective lens and the eye-piece of a dumpy level</li> </ul>	D	3		
7.	wing the parallax,				
8.	C) either (A) of (B) The following sights are taken on a "turning point"	С	3		10 10
0.	<ul><li>A) foresight only</li><li>C) foresight and back sight</li><li>D) foresight and intermediate sight</li></ul>	A	3		
9.	A) R.L. of bench mark + back sight $D$ back sight + fore sight				1
	C) R.L. of bench mark + interimentation of the back- sight is 1.215 m and the foresight is	A	3		
10	If the R.L. of a B.W. is recovard station 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				_

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10	DR. BABASAHEB AMBEDKAR TECHNICA Sanjeevan Engineering & Technolog	L UNIVERSITY, LONERE.
	Sanjeevan Engineering & Teennerg Department of Civil Eng Mid Semester Examinat	tion 2023
$\sim$		ACADEMIC YEAR: 2023-24
	SEMESTER: III	PRN.:
oti	NAME OF STUDENT:	Time : 2.00pm-3.00pm
	CLASS: S.Y. DAY & DATE: FRIDAY 27/10/2023	Marks: 20
England & SCHRECEL ASSIST	SUBJECT NAME WITH CODE: HYDRAULICS	I BTCVC 304

Instructions to the Students:

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2

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

Question	Sub	Question	co	PO	BL	Marks
No.	Question	Attempt the Following			4×1	=4
1.	a.	Attempt the Following 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 <sup>3</sup> 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
-		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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		7. U. sing	3 ×2 =	= 6
-		Solve Any Two Of The Following	BL3	3
2.	0	Give classification of Fluid nows.	BL4	3
	a.	What are the types of fluids?	BL5	3
	b.	State and explain Pascal's law		
	с.		5×2 :	= 10
3		Solve Any two of the following	BL5	5
3	а.	Derive Bernoulli's equation from Euler's equation	BL5	5
	b.	and an Continuity equation	BL6	-
	с.	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°.		

\*



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DR. BABASAHEB AMBEDKAR T	ECHNICAL UNIVERSITY, LONERE.		
Sanjeevan Engineering & 7	Fechnology Institute, Panhala.		
Department of Civil Engineering			
	Examination 2023		
SEMESTER: VII	ACADEMIC YEAR: 2023-24		
NAME Of STUDENT:	PRN.:		
	Time : 10.00am -11.00am		
DAY & DATE:	Marks: 20		
	n of Reinf. & Prestressed concrete		
	Mid Semester		

Instructions to the Students:

1 1

- 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.	Question	Attempt the Following			4×	1 =4
1.	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
	с.	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
	с.	What are the advantages of Prestress concrete structure	02			3
3		Solve Any two of the following			5 ×	2 = 10
3	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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nswer Key.

O	DR. BABASAHEB AMBEDKAR TECH	NICAL UNIVERSITY, LONERE,				
	Sanjeevan Engineering & Tech	nology Institute, Panhala.				
AL THE MENT	Department of Civil Engineering					
$\sim$	Mid Semester Exa	nination 2023				
	SEMESTER: VII	ACADEMIC YEAR: 2023-24				
tollamond Acard	NAME OF STUDENT:	PRN.:				
	CLASS: Final Year B. Tech.	Time :				
1 BARTERAL	DAY & DATE: 12 10 2023 -	Marks: 20				
	SUBJECT NAME WITH CODE: Design of I Structure	Reinf. & Prestressed concrete				

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	Mark		
1.		Attempt the Following			4×	1=4		
	a.	A.				1		
	b.	MCQ.				1		
	с.	MCQ.				1		
	d.	MCQ.				1		
b.MCQ.1c.MCQ.1d.MCQ.1d.MCQ.1 $\checkmark$ 2.Solve Any Two Of The Following $3 \times 2 = 6$ a.Explain the torsion acting on beam.3b.Explain longitudinal and transverse reinforcement3b.Explain longitudinal and transverse reinforcement3c.What are the advantages of Prestress concrete3 $3$ Solve Any two of the following $5 \times 2 = 10$								
2.		Solve Any Two Of The Following			3 ×	2 = 6		
	a,				1	3		
	b.	Explain longitudinal and transverse reinforcement				3		
	c.	The second se				3		
3		Solve Any two of the following	1		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		
		Calculate load carrying capacity of column having b = $230 \text{ mm } D = 450 \text{ mm}$ . Six bars of 12 mm diameter are used as main steel. Use M20 concrete & Fe 415 steel.				5		
		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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ochig on beam is increased. Longitudinal q -transverse Reinf 6) Longitudinal steel is use fical stred present in column. This steel provided to toke optial lood on longitudi column. Min bor dia. of longitudinal steel is deel 12mm. Min 0.8%. 4 TODE GY. Steel is provided as a francos longitudinol steel stee PU: 0.4 fck Ac + 0.67 fr Ast. -Dist in above eqn gives longitudinal steel. Papsverse steel nology Institute Civil It is made steel njeevan En omwar Peth. Fannois, Jost. Kolhapur. (416-201)-LAT THE N

strel. support longitudinal 15 T+ 10 provided onm confines the may that link leggec 410990-2 leageqAdvantage of pratrices concrete provided for longer be intermittent suppos can 1 withou concoc or grode 5 shain -11 their Droet small seen as compared gives 3 Q. that construction fort due to ericl ma in avin C section clender rofy is possible BUIK 6 Q. 3 750 mm d 2 mm375 a 12.5 00 = rt (70) = 12.6 KN Im mm 150 KHIM 7 35.15 × 106 mm3 375×7502 bd2 6 HOD MOD # MIS MID 12.5 +7= 19.5 Enternet Enginaeting & Technology 1416 201 22 19.5×12.5 280 8 KN.m 8

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

PRN No.

C.A.1

Class - Second Year B. Tech Civil Date - 26 /09 /2023 Name of Student :

Subject – Mechanics Of Solid (BTCVES302)

Roll No.

Marks -10 Time - 10.00 to 10.30am

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 asA) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law		I	I	1
5.	The stress at which extension of a material takes place more quickly ascompared to the increase in load is called		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	- in	-	1	1
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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C.A.1

PRN No.

Class - Second Year B. Tech Civil Date - 26 /09 /2023 Name of Student :

Subject – Mechanics Of Solid (BTCVES302)

Roll No.

Marks -10 Time - 10.00 to 10.30am

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	Aris	CO	PD	Miks
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	в	1	1	1
2.	Strain is a quantity.         A) Scalar       B) Vector         C) Dimensionless       D)None of the above	с	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	I	i	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known asA) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law	в	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	D	1	:	1
	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
7.	If the material has identical elastic properties in all directions, it is called         A) Elastic       B) Isotropic       C) Plastic       D) Homogeneous	8	1	1	1
	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	с	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	В	1	1	1

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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. Toch 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

0	Question	Ans	CO	PO	Mk
- The	term is used to mean the free passage of clean air			Dell harrison	
in a	structure.				
	b) Ventilation		4	1	
	d) Condensation				
It is	quite evident that the incoming air for ventilation should be	-			
	in summer and in winter before it enters the				
roon	1.		4	1	
	b) warm, cool	6			
c) hu	amid, dry d) dry, humid				
In_	system, the use is made of doors, windows.				
vent	lators and skylights to make the room properly ventilated.				
a) Ai	tificial ventilation b) Natural ventilation		4	1	
c) Ai	conditioning d) Mechanical ventilation		1		
Exh	aust system, supply system, air conditioning, etc. comes				
unde	r type of ventilation system.				
	tural b) Mechanical		4	1	
	n made dh Doors				
One	pipe system is cheaper than the single stack system for the				
drain	age of buildings.		3	1	
a) Tri	b) False				
Whic	n pipe is mostly used for carrying cold water?				
	pper pipe b) Steel pipe		3	1	
c) PV	C pipe d) Lead pipe		0	*	
	pipe is used for carrying cold and hot water?				
a) Pol	b) Poly propylene random co-polymer		~		
c) Hig	density poly ethylene d) Low density poly ethylene		3	1	
State	the two advantages of PVC pipes?				
c) Lie	able and corrosion free b) Durable and economical ht weight and economical d) Light weight & corrosion		3	1	
free	a) Light weight & corrosion		5	1	
-	a building practices include		_		
a) On					
c) On			5	1	
Which			0	-	
a) To r	n of the following is not the purpose of a green building?			[	-
	b) to minimize damage		5 t	VI	
<u>uj cj</u>	d) None of the above		15	lan.	-
	VOE	PRI	TPA	C	
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## Holy-wood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 2

Class - Second Year B. Tech Civil Date - 10/05/2024 Name of Student:

Subject – Building Planning and Drawing (BTCVC 401) Marks -10 Time - 09:30 am to 10:00 am 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	Mk
1	The term is used to mean the free passage of clean air				
	in a su ucture.	-			
	a) Circulation b) Ventilation	В	4	1	
	c) Dissipation				
	It is quite evident that the incoming air for ventilation should be				_
	in summer and in winter before it enters the				
2	room.	A	4	1	
	a) cool, warm b) warm, cool				
	c) humid, dry d) dry humid				
	In system, the use is made of doors, windows,				
3	ventilators and skylights to make the room properly ventilated.	-	4	1	
	a) Artificial ventilation b) Natural ventilation	В			
	c) Air conditioning d) Mechanical ventilation				
	Exhaust system, supply system, air conditioning, etc. comes	в	4		
4	under type of ventilation system.			1	
	a) Natural b) Mechanical			T	
	c) Man made d) Doors				
_	One pipe system is cheaper than the single stack system for the				
5	drainage of buildings.	В	3	1	
	a) True b) False				
-	Which pipe is mostly used for carrying cold water?				
6	a) Copper pipe b) Steel pipe	С	3	1	
	c) PVC pipe d) Lead pipe				
_	Which pipe is used for carrying cold and hot water?				
7	a) Poly propylene b) Poly propylene random co-polymer	В	3	1	
	c) High density poly ethylene d) Low density poly ethylene				
	State the two advantages of PVC pipes?			-	
8	a) Durable and corrosion free b) Durable and economical	D	3	1	
	c) Light weight and economical d) Light weight & corrosion free			100m 1	
	Green building practices include		-		
9	a) Only energy efficiency. b) Only recycled materials	D	5	1	
	of Only Environmental Protection di All of these	-		1	
10	Which of the following is not the purpose of a group little				
10	h lo minimize 1	D	-	1,1	
	c) Re-use of waste materials d) None of the above	D	5	1	

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	DR. BABASAHEB AMBEDKAR TECHS Sanjeevan Engineering & Techn	NOTO BY					
	Department of Civil	Department of CWI Engineering					
WHIND TUNE	Mid Semester Exam	ACADEMIC YEAR: 2023-24					
	SEMESTER: IV						
woud Acaga	NAME OF STUDENT:	PRN.:					
130 0000	CLASS: Third Year B. Tech.	Time :					
- The state	DAV & DATE: Friday - 19 4124	Marks: 20					
THE THE BANT	SUBJECT NAME WITH CODE: Transport	ation 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	РО	BL 4×	1 =4
	Question	Attempt the Following	1		-	1
1.	a.	The stopping sight distance does not depend on				
		<ul> <li>a) Break reaction time b) Visibility limit</li> <li>c) Head light distance d) Overtaking sight distance</li> </ul>	-			1
	b.	The camber required depends on a) Type of pavement b) Rainfall c) Type of pavement and rainfall d) Rainfall				
	с.	a) Temperature susceptibility b) Grade a) Viscosity d) Ductility				
21	d.	<ul> <li>c) viscosity</li> <li>The function of expansion joint in rigid pavement is</li> <li>a) Relieve wrapping stresses</li> <li>b) Relieve shrinkage stresses</li> <li>c) Resist stresses due to expansion</li> </ul>				
		d) Allow free expansion				
		The Following			3	$3 \times 2 = 6$
2.		Solve Any Two Of The Following	T	T	1	3
	a.	Write types of sight distances, in details.		_		
	b.	Write note on PIEV theory.				3
	с.	Explain in detail classification of road?				3

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		5 ×2	2 = 10
3	Solve Any two of the following		5
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.		2 197
<b>b</b> .	Draw the section of pavement and explain its elements	5	5
	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 perceptionreaction 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.

 $SSD=V\times tr+V22\times g\times f\setminus text\{SSD\} = V \setminus times t_r + \int (V^2) \{2 \setminus times g \setminus times f\} SSD=V\times tr + 2\times g\times fV2$ 

where:

1

- 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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## Holy-wcod Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C. A. 1 Subject – Building Planning and Drawing (BTCVC 401)

Class - Second Year B. Tech Civil Date - 28 /02 /2024 Name of Student:

Roll No.

PRN No.

Marks -10

Time - 02:00 pm to 02:30 pm

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

No	Question	Ans	co	PO	Mk
	is the built-up covered area of a building measured at				
	floor level of any story.		1	1	
1	a) Covered area b) Carpet area			540	
	c) Total area d) Plinth area				
	area of a building is the area of verandahs,				
	passage corridors, balconies, porches, etc.		1	1	
2	a) Floor area b) Horizontal circulation area		-		
-	c) Vertical circulation area d) Verandah area				
	of building is the useful area or liveable area or	5			
	lettable area. This is the total floor area minus the circulation				
550	area, verandahs, corridors, passages, staircase, lifts, entrance		1	1	
3	hall, etc. minus other non-useable areas.		-		
	a) Plinth area b) Floor area				
	c) Carpet area d) Circulation area				
	The placing of various rooms or units of a structure in proper				
	correlation of their functions and in due proximity with each				
4	other is known as		1	1	
	a) Aspect b) Prospect				
	c) Circulation d) Grouping				
	What is the level below window called?		1		
5	a) Pane level b) Lintel level			1	
5	c) Sill level d) Plinth level				
	Which is not a type of building?				
б	a) Educational Building b) Mercantile Building		1	1	
	c) Institutional Building d) Domestic building				
	Which is not included in building codes?				
7	a) Mechanical integrity b) Safety		1	1	
	c) Providing employment d) Structural integrity		· ·	1	
	Which among the following is not a principle of planning?*		1		
8	a) Furniture requirements b) Aspect			1	
	c) Prospect d) Respect			1	
	Green building practices include		1	1	-
9	a) Only energy efficiency. b) Only recycled materials				
	c) Only Environmental Protection d) All of these				
	Residential building includes			-	-
10	c) Bungalows b) Apartments		1.0		
	d) Row Housings d) All of above		1	1	
		4	1		

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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 Date - 28 /02 /2024 Name of Student:

Subject – Building Planning and Drawing (BTCVC 401)

Time - 02:00 pm to 02:30 pm

Marks -10

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PRN No. Roll No.

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

#### **Answer Solution**

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	D	1	1	
	c) Total area d) Plinth area				
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	в	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	С	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 levelb) Lintel levelc) Sill leveld) Plinth level	с	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	с	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. c) Only Environmental Protection Basid	D	1	1	L
10	Residential building excludes         a) Bungalows       b) Apartments         b) Row Housings       d) All of above	D			

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject - Surveying (BTCVC305)

Marks -10 Time – 10.40 am-11.10 am

Class – Second Year B. Tech Civil Date – 24/11/2023 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.	Question	Ans	C0	PO	Mks
No 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.	1 C 1 - lines riors table?		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 byA) Tracing paper methodB) Bessels methodC) Lehman's methodD) all of the above		2		1
6.	A 'level line' is aA) horizontal lineB) line parallel to the mean spheriodal surface of earthC) line passing through the centre of cross hairs and the centre of eye pieceD) 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 onlyB) back sight onlyC) foresight and back sightD) foresight and intermediate sight		3		1
9.	The height of instrument is equal toA) R.L. of bench mark + back sightB) R.L. of bench mark + fore sightC) R.L. of bench mark + intermediate sightD) 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



Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA

DEPARTMENT OF CIVIL ENGINEERING

C.A.2

Subject – Surveying (BTCVC305)

Marks -10 Time -10.40 am- 11.10 am

Class – Second Year B. Tech Civil Date – 24/11/2023 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.	Question	Ans	CO	PO	M
lo 1.	Plane table (PT) surveying is a method.	A	2		
	A) Graphical B) Linear C) Circular D) Angular	B	2		
2.	A plumbing fork is used to the plane table. A) Focus B) Centre C) Orient D) Level				
	and the latencie used for leveling a plane table?	В	2		1
3.	A) Plumb bob B) Spirit level C) Compass D) C and	В	2	-	
4.	The process of determining the locations of the instrument station by drawing re sectors from the locations of the known stations is called by the sector of the location of the known station by traversing	D			
5.	A) radiation B) intersection Three point problem can be solved by	D	2		
	A) Tracing paper method D) all of the above	В	3		
6.	<ul> <li>C) Lemman's mean of the control of the mean spheriodal surface of earth</li> <li>A) horizontal line B) line parallel to the mean spheriodal surface of earth</li> <li>C) line passing through the centre of cross hairs and the centre of eye piece</li> <li>D) line passing through the objective lens and the eye-piece of a dumpy level</li> </ul>	D	3		
7.	wing the parallax,				
8.	C) either (A) of (B) The following sights are taken on a "turning point"	С	3		10 10
0.	<ul><li>A) foresight only</li><li>C) foresight and back sight</li><li>D) foresight and intermediate sight</li></ul>	A	3		
9.	A) R.L. of bench mark + back sight D) back sight + fore sight				1
	C) R.L. of bench mark + interimentation of the back- sight is 1.215 m and the foresight is	A	3		
10	If the R.L. of a B.W. is recovard station 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				_

AND AND

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10	DR. BABASAHEB AMBEDKAR TECHNICA Sanjeevan Engineering & Technolog	L UNIVERSITY, LONERE.
	Sanjeevan Engineering & Teennerg Department of Civil Eng Mid Semester Examinat	tion 2023
$\sim$		ACADEMIC YEAR: 2023-24
	SEMESTER: III	PRN.:
oti	NAME OF STUDENT:	Time : 2.00pm-3.00pm
	CLASS: S.Y. DAY & DATE: FRIDAY 27/10/2023	Marks: 20
England & SCHRECEL ASSISTE	SUBJECT NAME WITH CODE: HYDRAULICS	I BTCVC 304

Instructions to the Students:

1

2

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

Question	Sub	Question	co	PO	BL	Marks
No.	Question	Attempt the Following			4×1	1 =4
1.	a.	<ul> <li>Attempt the Following</li> <li>For an incompressible fluid does density vary with temperature and pressure?</li> <li>a) It varies for all temperature and pressure range</li> <li>b) It remains constant</li> <li>c) It varies only for lower values of temperature and pressure</li> <li>d) It varies only for higher values of temperature and pressure</li> </ul>			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 <sup>3</sup> 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
-		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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		7. U. sing	3 ×2 =	= 6
-		Solve Any Two Of The Following	BL3	3
2.	0	Give classification of Fluid nows.	BL4	3
	a.	What are the types of fluids?	BL5	3
	b.	State and explain Pascal's law		
	с.		5×2 :	= 10
2		Solve Any two of the following	BL5	5
3	а.	Derive Bernoulli's equation from Euler's equation	BL5	5
	b.	and an Continuity equation	BL6	-
	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°.		

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Civil Engineering Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala, Dist, Kolhagen Institute				



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DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.					
Sanjeevan Engineering & 7	Sanjeevan Engineering & Technology Institute, Panhala.				
Department of Civil Engineering					
	Examination 2023				
SEMESTER: VII	ACADEMIC YEAR: 2023-24				
NAME Of STUDENT:	PRN.:				
	Time : 10.00am -11.00am				
DAY & DATE:	Marks: 20				
	n of Reinf. & Prestressed concrete				
	Sanjeevan Engineering & Department of Mid Semester				

Instructions to the Students:

1 1

- 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.	Question	Attempt the Following			4×	1 =4
1.	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
	с.	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
	с.	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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O	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.						
	Sanjeevan Engineering & Tech	Sanjeevan Engineering & Technology Institute, Panhala.					
Children of the second	Department of Civil Engineering						
	Mid Semester Exa	nination 2023					
	SEMESTER: VII	ACADEMIC YEAR: 2023-24					
tollamond Acard	NAME OF STUDENT:	PRN.:					
	CLASS: Final Year B. Tech.	Time :					
1 BARTERAL	DAY & DATE: 12 10 2023 -	Marks: 20					
	SUBJECT NAME WITH CODE: Design of I Structure	Reinf. & Prestressed concrete					

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	Mark			
1.		Attempt the Following			4×	1=4			
	a.	A.				1			
	b.	MCQ.				1			
	с.	MCQ.				1			
	d.	MCQ.				1			
a.       Solve Any Two Of The Following $3 \times 2 = 6$ a.       Explain the torsion acting on beam.       3         b.       Explain longitudinal and transverse reinforcement for column.       3									
2.		Solve Any Two Of The Following			3 ×	2 = 6			
	a,				1	3			
	b.	Explain longitudinal and transverse reinforcement				3			
	c.	What are the advantages of Prestress concrete structure				3			
3		Solve Any two of the following	5 ×2 = 10		= 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			
		Calculate load carrying capacity of column having b = $230 \text{ mm } D = 450 \text{ mm}$ . Six bars of 12 mm diameter are used as main steel. Use M20 concrete & Fe 415 steel.				5			
		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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ochig on beam is increased. Longitudinal q -transverse Reinf 6) Longitudinal steel is use fical stred present in column. This steel provided to toke optial lood on longitudi column. Min bor dia. of longitudinal steel is deel 12mm. Min 0.8%. 4 TODE GY. Steel is provided as a francos longitudinol steel stee PU: 0.4 fck Ac + 0.67 fr Ast. -Dist in above eqn gives longitudinal steel. Papsverse steel nology Institute Civil It is made steel njeevan En omwar Peth. Fannois, Jost. Kolhapur. (416-201)-LAT THE N

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#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

PRN No.

C.A.1

Class - Second Year B. Tech Civil Date - 26 /09 /2023 Name of Student :

Subject – Mechanics Of Solid (BTCVES302)

Roll No.

Marks -10 Time - 10.00 to 10.30am

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 asA) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law		I	I	1
5.	The stress at which extension of a material takes place more quickly ascompared to the increase in load is called		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	- in	-	1	1
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**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth. Panhala. Dist. Kolhapur. (416 201)

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





#### Holywood Academy's SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA DEPARTMENT OF CIVIL ENGINEERING

C.A.1

PRN No.

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Subject – Mechanics Of Solid (BTCVES302)

Roll No.

Marks -10 Time - 10.00 to 10.30am

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Q.No	Question	Aris	CO	PD	Miks
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	в	1	1	1
2.	Strain is a quantity.         A) Scalar       B) Vector         C) Dimensionless       D)None of the above	с	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	I	i	1
4.	The law which states that within elastic limits strain produced is proportional to the stress producing it is known asA) Bernoulli's law B) Hooke's law C) Stress law D) Poisson's law	в	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	D	1	:	1
	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
7.	If the material has identical elastic properties in all directions, it is called         A) Elastic       B) Isotropic       C) Plastic       D) Homogeneous	8	1	1	1
	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	с	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	В	1	1	1

**Civil Engineering** Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist. Kolhapur, (416 2011

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3 15 - Independence Day, 16 - Parsi New Year	3	20	19	18	17	10.0	-B.gr	14	AUGUST
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0 27- Guru Nanak Jayanti					30	29	28	125	Ż
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	Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.										
(in Fi	1	F	Acade	mic Cal	enda	r for A	.Y. 202	23-202	4 (Odd Semester)		
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AUGUST	7	8	2 9	3 10	4	5 12	6 13	0 6	4- Commencement meeting 7- Reporting & Commencement of Classes, Training Programs for SY, TY & Fina Year B. Tech		
DO	14	in s	-	17	18	19	20	3	15 - Independence Day,16 -Parsi New Year		
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SEPTEMBER	4	5 12	6 13	7 14	8 15	9 16	10 17	6 5	CALTY & Final Year ,15- Engineer's Day Celebration		
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MBI	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training		
DECEMBER	11	12	13	14	15	16	17	0			
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	tivities		С	A/MSE/Pra		im/ESE foliday		78	01st January 2024 Commencement of Classes for		
2.		h thús, eac	h Departn		nange a pare thei ン	is per th	calendar to		Abour 15		

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			formi	ng stud	ients	into	com	pete	ence by imparting quality education and nt professionals with societal relevance.	
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Month			We	ek Day	S			working days	Events	
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FEBRUARY	12	13	14	15	16	17	10	5		
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		-			1	2		1	1-CA-01	
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	20	21	22	23	24	25	-26	5	23-Buddha Pounima, 25- End of Classes	
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JUNE	3 10	4	5	6	7	8			3-14- End Semester Exam,	
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	24	25	26	20	21	22	238		17- Bakri ld (ld-Ul-Zuha)	
Govt	Holiday	2.3	20120	Z/ MSE/Prac	28	29	-th			
-	ctivities	121.000	cay		itute Ho	- 10- 10- 10-	1000	80	29 July - Result Declaration,	
Note	: 1. The a	bove (	dates a				36.000	the e	01 Aug: Commencement of Classes for Next Semester uidelines of regulating authorites.	
1	Z. In ali	gn with	n this, e	each dep. al Visits a Dean	artmei ind Stu	nt sha ident i	ll prep Intren	are th ships e	eir denartmental cales da la b	



ANTER IN I CONTRACT

DTE Code : ENG315





(3 Approved By Alt/TE, New Delbi, O Recognized by Cost, of Maharashira & OTS O Permanent Affiliation by Dr. Habatabeh Ambedbar Dedmological University, 8.

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING Academic Calendar for A.Y. 2023-2024 (Even Semester) working Month days Week Days Events SAT SUN MON TUE WED THUR FRI 1- Commencement of Classes FEBRUARY 5-6 Traning Program for SY, TY, Final year 19- Chhatrapati Shivaji Maharaj Jayanti 29-CA-01 4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri MARCH 12- Guest Lecture on NCS , 23- Parikrama Technical Event s 25-Dhulivandan, 29-Good Friday 9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti APRIL 17-Shri Ram Navami, 18-20- MSE, 21-Mahavir Jayanti 27-Parents Meet, 28-Xpert Talk on Apportunities in IT 30-Seminar on Research Methodology & Research Process 1-Maharashtra Din 94-10 -CA-02,20-Seminar on Importance of IPR MAY 22- Seminar on Research & Publication Ethics s 23-Buddha Pounima, 25- End of Classes 27-31- Practical Examination 3-14- End Semester Exam. JUNE 17- Bakri Id (Id-Ul-Zuha) CA/MSE/Pract. Exam/ESE Govt. Heliday 29 July - Result Declaration, 01 Aug- Commencement of Classes for Next Semester Institute Holiday Activities 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. ANG & TE Dean Academics Prepared By HOD(CSE) Sanjeevan Group Of Institutions

Somwarpeth, Panhala, Tal. Panhald PUR ist Walk .



DTE Code : ENG315



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:

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)

NG & TEC

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# CA-I Schedule (TY) February 2024

**Exam** Coordinator

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

Department of Computer Science & Engineering mieevan Engr. & Tech. Institute r F. 10 Canhala - 416 201



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 :

Date	Timing	Subjects(Div-A)	Subjects(Div-B )
8/11/23	2pm to 2.30 pm	Computer Organization and Architectur(MCQ+Assignmen t)	Object Oriented Programming in Java ( Quiz)
0/11/20	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)

### CA-II Examination Schedule 2023

Note: Attendance is mandatory.

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

Exam Co-ordinator



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Department of Computer Science & Engineering Sanjeevan Engg. & Tech. Institute S.L. M. Contraction and a PERMANNA

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AICTE ID : 1-5019451 AISHE Code : 1-11/65



# **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**

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- Bring your Student ID. You will not be allowed into the exam hall without Student ID. 1.
- 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.			HERINO & TEOLO
	4	HOD - Mechanical Engg.		1	Star Change
	5	HOD - BSH		NON EN	EXAM SECTION
C P.1	2. 3.	All Department Exam coor Student notice board	nts, S.E.T.I. Panhala dinators, S.E.T.I. Panhala	ANHALA DILHAPUR VbS + 31011	
artmen 8	HOP	puter Science	Academic Dean	i.	ADist.Kolhapur.41620

	DR. BABASAHEB AMBEDKAR TECHN Sanieevan Engineering & Tec	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE. Sanjeevan Engineering & Technology Institute, Panhala.							
	Department of Computer								
	Mid Semester Exa	amination 2023							
	SEMESTER: III	ACADEMIC YEAR: 2023-24							
How wood Academy	NAME OF STUDENT:	PRN.:							
	CLASS: S.Y. B.Tech	Time : 10.00 am To 11.00 am							
।। विद्यानां विद्य संजीवनी ॥	DAY & DATE: Saturdday.28/10/2023	Marks: 20							

OOPJ - MSE

Instructions to the Students:

2

### 1.All questions are compulsory

2.Assume suitable data if necessary

3.Use of non-programmable calculator is allowed

Quest ion No.	Sub Question	Question	C O	P O	B L	Mark s
1.		Attempt the Following			4×1 =	l =4
	a.	JVM stands for_ JAVA Visualization Machine b) JAVA Versatility Machine c) JAVA Virtual Machine d) JAVA Variable Machine	1	1	BI. 1	1
	b.	Which of the following are the Jump Statements used in JAVA a) if-else b) for loop Obreak & 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
			1		L	
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
	с.	What is Array and what are the types of Array	1	1	BL	3

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

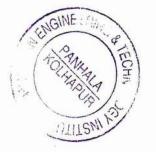
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Gepartment of Computer Science & Engineering Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 416 201

3		Solve Any two of the following		$5 \times 2 = 10$						
	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				

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ine 121	PRINCIPAL Sanjeevan Engg. & Tech. Institute Somwar <sup>D</sup> eth, Panhala - 416 201	Mark only one oval.	5. Division: *	4. PRN: *	3. Roll No. *		2. Name of Student *	. Email *	Indicates required question	Day & Date: wedensday , 08/11/2023	Institute, Panhala
	HANNEW GINESCHING & TECHNIC SUMMER PANHALLA NOL HAPUR HAPUR HAPUR HAPUR HAPUR HAPUR		<ul> <li>Dropdown</li> </ul>	547		9	2		7.		
~	<ul> <li>Single Inheritance</li> <li>Multiple Inheritance</li> <li>Multilevel Inheritance</li> <li>Hyrarchical</li> </ul>		ClassB		ClassA	Identify which type of Inheritance this diagram shows. *	◯ False ◯ Can't say	Mark only one oval.	A Constructor should not have return type *		Taise
General Path, Panhalo 。 し01 13/01/25, 12:24	HOD Department of Computer Science & Engineering Sanieevan Engg. & Tech. Institute					ows. * 1 point			1 point	3	

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1

CA-II , Subject: 00PJ ,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 CA-II: QUIZ on OOPJ Div-A & B

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1 of 11

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1 point

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Mark only one oval.

True ) False

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

Constructor name must be the same as its class name \*

3 of 11				;;			10.			9.	CA-II: QUIZ on OOPJ Div-A & B
	PRINCIPAL Sanjeevan Engg. & Tech. Institute Somwar Deth, Panhala - 416 201	⊖ extends ⊖ Sanjeevan ⊖ main		. class student extends Sanjeevan // in this syntax which one is Base	Animal     extends	) Dog	<ul> <li>class Dog extends Animal // in this syntax which class is subclass * Mark only one oval.</li> </ul>	<ul> <li>Single Inheritance</li> <li>Multilevel Inheritance</li> <li>Hierarchical Inheritance</li> <li>Multiple Inheritance</li> </ul>	Mark only one oval.	JAVA does not support *	
13/01/25, 12:24 4 of 11	ELINGINEESIMG & TECHNO PAMIHALA NOL HADURA NOL HADURA NOL HADURA NOL HADURA NOL HADURA NOL HADURA NOL HADURA	14.		ase * 1 point			SS * 1 point			1 point - 12.	https://docs.google.com/forms/d/1LCr0UEe0ekUG9g CA-II: QUIZ on OOI
Sanie Sc.	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	none nextLine() *	It is in constructor method	multiple methods can have the same name with different parameters: *	Hybrid Inheritance	Multilevel Inheritance Multiple Inheritance	Mark only one oval.	ClassA		Identify which type of Inheritance it is. *	on OOPJ Div-A & B https://doc
Sanjeevan Engg. & Tech. 11511000 Score 27 Peth, Panhala - 415 201 13/01/25, 12:24	Pour an Department of Computer Science & Engineering	1 point		rent parameters: * 1 point						4 T peint	https://docs.google.com/forms/d/1LCr0UEe0ekUG9g

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		16. 1		• 15. e	CA-II: QUIZ on OOPJ Div-A & B
PRINCIPAL Sanjeevan Engg. & Tech. Institute Somwar beth, Panhala - 416 201	ClassA ClassB ClassC Single Inheritance Multilevel Inheritance Multiple Inheritance	Identify Which Type of Inheritance this is *	Mark only one oval.	extends keyword in java is used for *	Div-A & B
. Institute 416 201		*			https://docs.google.com/forms/d/1LCr0UEe0ekUG9g
	EVAN ENGINEERING & HOLHAPUR 19070NHO	T point		1 point	s/d/1LCr0UEe0ekUG9g
Department of Computer Science & Engineering Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 416 201		2		×	

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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

PRINCIPAL

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

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Department of Computer Science & English computer Science

Sanjeevan Enor. ech. Institute Somwar Paul, Panhala - 416 201



1/23/2024, 5:06 PM

QUIZ on OOPJ Div-A & B	https://docs.google.com/forms/u/0/d/1LCr0UEe0ekUG9gsAXH					
Constructor name must be the same as its cl	ass name * 1 point					
True						
O False						
A Constructor should not have return type *	1 point					
True						
O False						
O Can't say						
•	3					
	Pyles					
- A Daw	Department of Computer Science & Engineering Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 410 2, 1					
PRINCIPAL Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 416 201	RING & TECHN					

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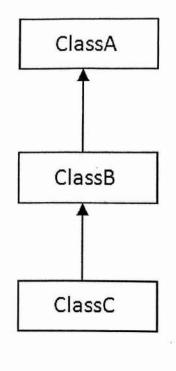
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Identify which type of Inheritance this diagram shows. \*

1 point



- Single Inheritance
- Multiple Inheritance
- Multilevel Inheritance
- Hyrarchical

JAVA does not support \*

1 point

Department of Computer Science

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Single Inheritance

Multilevel Inheritance

Hierarchical Inheritance

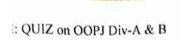
Multiple Inheritance

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



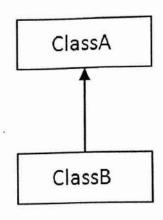
18 191



class Dog extends Animal // in this syntax which	class is subclass *	1 point
Dog		
🔘 main		
O Animal		
extends		
class student extends Sanjeevan // in this syntax	which one is Base class *	1 point
student		
extends		
<ul> <li>Sanjeevan</li> </ul>		
🔘 main		
PRINCIPAL Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 416 201	HOD Department of Comp & Engineer Sanjeevan Engg. & T Somwar Peth, Panh	ing ech. Institute
	<ul> <li>Dog</li> <li>main</li> <li>Animal</li> <li>extends</li> </ul> class student extends Sanjeevan // in this syntax <ul> <li>student</li> <li>extends</li> <li>Sanjeevan</li> <li>main</li> </ul> PRINCIPAL Sanjeevan Engg. & Tech. Institute Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 416 201	main     Animal     extends  class student extends Sanjeevan // in this syntax which one is Base class *      student     extends      Sanjeevan     main  PRINCIPAL Sanjeevan Eng. & Tech. Institute

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

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



0	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.				
	Sanjeevan Engineering & Tec				
	Department of Computer	Science & Engineering			
	MODEL ANSWER SHEET :Mi	d Semester Examination 2023			
	SEMESTER: III	ACADEMIC YEAR: 2023-24			
Holy Wood Academy	NAME Of STUDENT:	PRN.:			
	CLASS: S.Y. B.Tech	Time : 10.00 am To 11.00 am			
ा विद्रम्बं विद्य संदेशने ।	DAY & DATE: Saturdday.28/10/2023	Marks: 20			
And Division of the local division	SUBJECT NAME WITH CODE: BTCOL305,0	Object Oriented Programming in Java			

Instructions to the Students:

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

Quest ion No.	Sub Question	Question	C O	P O	B L	Mark s
1.		Attempt the Following		1	4×1 =	=4
	a.	JVM stands for_ a) JAVA Visualization Machine b) JAVA Versatility Machine <b>c) JAVA Virtual Machine</b> 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 <b>c)break &amp; continue</b> 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.	<ul> <li>int SY[]={12,23,25,36};</li> <li>a) Single dimensional Array b) Two dimensional Array c) Three Dimensional Array d) None of these</li> </ul>	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

PRINCIPAL

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

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

		any two data type with default size1 Mark				
	Ь.	<ul> <li>What are the different operators used in JAVA Explanation:Operators in Java</li> <li>Operator in JAVA is a symbol that is used to perform operations.</li> <li>Java Operators:Operators are used to perform operations on variables and values.</li> <li>Java divides the operators into the following groups: <ul> <li>Arithmetic operators :+,-,*,/.%</li> <li>Assignment operators := .+=,-=,*=,/=</li> <li>Comparison operators: Logical AND, Logical OR</li> <li>Bitwise operators</li> </ul> </li> <li>Each operator with example1 Mark Any three operators with example carries 3 Marks</li> </ul>	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 initialization1 Mark Accessing the elements of array1 Mark Types of Array a) Single Dimensional b)Multidimensional array1 Mark	1	1	BL 1	3
3		Solve Any two of the following				
	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	5 ×2 = BL 3	5
PRI jeevan Eng	NCIPAL 99. & Tech Panhala	n. Institute - 416 201	OC L	11gun	mpute	- Instil

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	<pre>{ 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 syntax5 Marks</pre>				
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 syntax5 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

PRINCIPAL

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



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Department of Computer Science & Engineering Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 410 201

} System.out.println(); }	
} } 5 Marks	

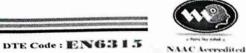
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PRINCIPAL

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



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AICTE ID : 1-8019454 07

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 O Permanent Atfliation by Dr. Dabasaheb Ambedhar Technological University, Raigad

#### 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
12/10/2023 12:02:14	satvilkarmuskan920@gmail.com	25/35	Muskan Husain Satvilkar	33	2263151242029	Div-B
12:0/2023 12:02:53	apekshabajage09@gmail.com	34 / 35	Apeksha Ananda Bajage	3	2263151242033	Div-A
12/10/2023 12:02:59	nahidathanikar18@gmail.com	30 / 35	Nahida Faiyaz Athanikar Nadaf	2	2263151242013	Div-A
12/10/2023 12:03:02	sahildorad@gmail.com	32 / 35	Sahil Santosh dorad	07	2263151242125	Div-B
12/10/2023 12:03:19	zendearyaa@gmail.com	30 / 35	Aryaa Zende	1	2263151242105	Div-A
12/10/2023 12:03:20	sejaldhepe2005@gmail.com	12 / 35	Sejal Abasaheb Dhepe	20	226315122067	Div-A
12/10/2023 12:03:39	pavannnimkar@gmail.com	27 / 35	Nimkar Pavan Nitin	54	23063151242513	Div-B
12/10/2023 12:03:44	shrirangdhumal9299@gmail.com	26/35	Dhumal Shrirang Pandurang	21	2263151242055	Div-A
12/10/2023 12:04:14	ruturajbharade123@gmail.com	24 / 35	Ruturaj Shankar Bharade	05	2263151242071	Div-A
12/10/2023 12:04:20	patilsandhya1030@gmail.com	27 / 35	Sandhyarani Vijay Patil	56	2263151242045	Div-A
12/10/2023 12:04:29	sarthakbornake@gmail.com	11/35	Sarthak vinayak bornake	02	2263151242106	Div-B
12/10/2023 12:05:07	atharvpatil404@gmail.com	28 / 35	PATIL ATHARV RANGRAO	55	505	Div-B
12/10/2023 12:05:25	prathmeshkumbhar1297@gmail.com	29 / 35	Prathmesh Dilip Kumbhar	34	2263151242088	Div-A
12/10/2023 12:05:27	shrutinikade1015@gmail.com	31/35	Shruti Sanjay Nikade	53	23063151242525	Div-B
12/10/2023 12:05:29	kaustubhbhalekar7711@gmail.com	29/35	Kaustubh Sambhaji Bhalekar	04	2263151242109	Div-A
12/10/2023 12:05:54	cp5395149@gmail.com	25 / 35	Chetan mukund patil	50	2263151242026	Div-A
12/10/2023 12:05:55	rohandabire9108@gmail.com	28 / 35	Rohan Umesh Dabire	17	2263151242107	Div-A
12/10/2023 12:05:56	faizamullani2004@gmail.com	27 / 35	Faiza Dastagir Mullani	44	2263151242068	Div-A
12/10/2023 12:05:59	mahesh.kajale@seti.edu.in	30 / 35	Shivani Ravaso Patil	57	2263151242110	Div-A
0/2023 12:06:19	mokashipratiksha99@gmail.com	22 / 35	Pratiksha Dnyandev Mokashi	72	23063151242515	Div-B
12/10/2023 12:06:19	amreshwarmahimkar1@gmail.com	33 / 35	Amreshwar Sunil Mahimkar	21	2263151242040	Div-B
12/10/2023 12:06:23	akashsuryakantpawar@gmail.com	20 / 35	Akash Suryakant Pawar	62	2263151242032	Div-A
12/10/2023 12:06:30	chavankunti72@gmail.com	32 / 35	Chavan kunti shrikrushna	44	23063151242516	Div-B
12/10/2023 12:06:31	shraddhapatil8485@gmail.com	25/35	Shraddha Satyajit Patil	58	2263151242048	Div-A
12/10/2023 12:06:34	aartipatil7760@gmail.com	26/35	Arati Dharmendra Patil	48	2263151242037	Div-A
12/10/2023 12:06:34	sidhantpowar25@gmail.com	25/35	Sidhant Sanjay Powar	65	2263151242046	Div-A
	khavarepradnya105@gmail.com	29/35	Pradnya Krishnat Khavare	32	2263151242077	Div-A
12/10/2023 12:06:41	sakshichavan1762004@gmail.com	27/35	Sakshi Sunil Chavan.	14	2263151242049	Div-A
12/10/2023 12:06:43	saritaparte7414@gmail.com	27/35	Sarita krushna parte	47	2263151242060	Div-A
12/10/2023 12:06:56	satputesanika2003@gmail.com	24/35	Sanika Vikas Satpute	71	2263151242078	Div-A
12/10/2023 12:07:04	omi7058531800@gmail.com	28/35	Omkar Raju Patil	52	2263151242051	Div-A
12/10/2023 12:07:06		27/35	Aparna Tukaram Kamble	- 30	2263151242080	Div-A
12/10/2023 12:07:34	aprnakamble331@gmail.com	25/35	Gaikwad Rutuja Eknath	45	2363151242503	Div-B
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PRINCIPAL Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 416 201 Sanjeevan Engg. & Tech. Institu war Peth. Panbala - 416.2

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12/10/2023 12:07:59	abhinandankasar9204@gmail.com	27 / 35	Abhinandan Arvind Kasar	31		Div-/
12/10/2023 12:08:04	manasiyadav69@gmail.com	30 / 35	Manasi Manik Yadav	66		Div-E
12/10/2023 12:08:06	chouguleprachi12@gmail.com	31/35	Prachi Jivandhar Chougule	71		Div-E
12/10/2023 12:08:12	nigadeshradha@gmail.com	30 / 35	Shradha Vikas Nigade	45		Div-A
12/10/2023 12:08:28	ghorpadeshubham952@gmail.com	28/35	Balkrushna Sunil Ghorpade	23	2263151242072	Div-A
	anjalitibe24@gmail.com	28/35	Tibe Anjali Gorakhnath	77	2002	Div-A
	suyashdabholkar731@gmail.com	30/35	Suyash Dinesh Dabholkar	16	2263151242083	Div-A
	amishakumbhar07@gmail.com	33/35	Amisha Uttam kumbhar	33	2263151242069	Div-A
	vishalkasture007@gmail.com	29/35	Kasture Vishal Dattatray	18	2263151242034	Div-B
	vedikabharankar2813@gmail.com	31/35	Vedika narayan bharankar	6	2263151242092	Div-A
	sahilm542004@gmail.com	21/35	Sahil Sambhaji Mharugade	41	2263151242053	Div-A
	sayalikarambe8084@gmail.com	25/35	Sayali Vijay Karambe	70	23063151242529	Div-B
	sharvarikarande3031@gmail.com	23/35	Sharvari Bhagwan Karande	16	2263151242119	Div-B
	appugurule2408@gmail.com	31/35	Apurva Krishnat Gurule	24	2263151242108	Div-A
	sakshiranage649@gmail.com	25/35	Ranage Sakshi Kashinath	66	2263151242079	Div-A
	sanketparte657@gmail.com	21/35	Parte Sanket Dattatray	40	2263151242019	Div-B
	bhosalesamiksha92@gmail.com	25/35	Samiksha Dhanajirao Bhosale	9	2263151242058	Div-A
		-		25	2263151242038	Div-B
	kapilpatil7473@gmail.com	24/35	Kapil kailas patil		2363151242508	Div-B
	ngavaleyogesh2@gmail.com	29/35	Yogesh Tukaram Ingavale	46		
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	aifdhole7777@gmail.com	32 / 35	Kaif Saheblal Dhole	06	2263151242006	Div-B
	andageshruti88@gmail.com	29/35	Shruti Yashwant Landage	37	2263151242126	Div-A
	iteshgavade2112@gmail.com	34/35	Ritesh Laxman Gavade	22	2263151242099	Div-A
	atyajitredekar500@gmail.com	34 / 35	Satyajit Vitthal Redekar	68	2263151242087	Div-A
	ejaslonkar62@gmail.com	17/35	Tejas Laxman Lonkar	20	2263151242122	Div-B
	rachishinde8107@gmail.com	24/35	Shinde Prachi Namdev	34	2263151242008	Div-B
	hougulevipul9096@gmail.com	28/35	Samruddhi vipul chougule	69	23063151242522	Div-B
	ajkiranp870@gmail.com	22/35	Rajkiran Krishnat Patil	29	2263151242022	Div-B
	ineshchavan16052004@gmail.com	30/35	Dinesh uttam chavan	03	2263151242062	Div-B
	algarshrinivas5@gmail.com	21/35	Shrinivas bira salgar	69	2263151242114	Div-A
	id7385357223@gmail.com	28/35	SIDDHARTH AMOL GURAV	12	2263151242084	Div-B
2/10/2023 12:09:46 p	adgilwarkrishna@gmail.com	23/35	Krushna Manoharrao Padgilwar	24	2263151242035	Div-B
2/10/2023 12:09:47 o	nkargiri2005@gmail.com	29/35	Onkar Satish Giri	9	2263151242081	Div-B
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2/10/2023 12:10:12 ar	iruddhamhavale26@gmail.com	23/35	Aniruddha Arvind Mhavale	42	2263151242059	Div-A
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	atikshachalake2004@gmail.com		Pratiksha Sanjay Chalake	11	2263151242031	Div-A
	utroodra11@gmail.com		ROODRA NISHANT RAUT	32	2263151242004	Div-B
	nketbhore05@gmail.com	the second se	Sanket Haridas bhore	7	2263151242004	Div-B Div-A
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PANHALA KOLHAPUR

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

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

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12/10/2023 12:10:45 bhushanukarande@gmail.com 12/10/2023 12:10:46 patilrajvardhan420@gmail.com	31/35	Rajvardhan Uttam Patil	56	23063151242518	Div-B
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and an	22/35	Suraj Rajendra kumbhar	35	2263151242094	Div-A
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h nd O	31/35	Tejaswini Vishnu Dhanawade	19	2263151242089	Div-A
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	26/35	Siddhesh Shailendra Desai	18	2263151242012	Div-A
	28/35	Prathmesh Madhukar Kanekar	49	2363151242506	Div-B
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	32/35	Jagtap Aditi Arun	27	22631542020	Div-A
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	27/35	Harshada Bhimarao Sawant	72	2263151242027	Div-A
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	21/35	Pranav Shinge	74	2263151242098	Div-A
	23/35	Sahil Suresh Patil	54	2263151242054	Div-A
12/10/2023 12:11:35         sahilpatil3743@gmail.com           12/2023 12:11:37         suryavanshisanika85@gmail.com	18/35	Sanika Kashinath Suryavanshi	75	2263151242039	Div-A
	24/35	Rohan Ashok Haladkar	13	2263151242066	Div-B
12/10/2023 12:11:40 rohanhaladkar05@gmail.com	16/35	Sahil Mahendra Kuwar	36	22631512036	Div-A
12/10/2023 12:11:45 sahilmkuwar8080@gmail.com	35/35	Arya Kiran Birange	62	2363151242512	Div-B
12/10/2023 12:11:49 birangeaarya@gmail.com	22/35	Dhairyasheel Dhanaji Patil	51	2263151242085	Div-A
12/10/2023 12:11:51 dhairyasheelpatil1435@gmail.com	21/35	Omkar Sanjay Sutar	76	2263151242044	Div-A
12/10/2023 12:12:00 omya6303@gmail.com	23/35	Abhijeet vishwas jadhav	47	2363151242504	Div-B
12/10/2023 12:12:06 abhijadhav6666@gmail.com		Prajakta Bhupal Pol	31	22631512011	Div-B
12/10/2023 12:12:09 prajaktapol0206@gmail.com	28/35	Tanishaq Shailendra Kakade	28	2263151242056	Div-A
12/10/2023 12:12:10 tanishqkakade43@gmail.com	29/35	Vaibhav Nivas Sutar	37	2263151242047	Div-B
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12/10/2023 12:12:17 kamblesneha0286@gmail.com	22/35	Suraj sayaji jadhav	42	2263151242030	Div-B
12/10/2023 12:12:32 surajjadhav9937@gmail.com	30 / 35 27 / 35	Shantanu Sharad patil	41	2263151242129	Div-B
12/10/2023 12:12:33 patilshantanu0717@gmail.com	22/35	Aditya vishwanath gundure	11	2263151242115	Div-B
12/10/2023 12:12:33 adityagundure@gmail.com		Omkar Rohit Udale	78	2263151242074	Div-A
12/10/2023 12:12:40 omkarudale7@gmail.com	25/35	Mrunali appaso patil	57	23063151242521	Div-B
12/10/2023 12:12:41 mrunalipatil9650@gmail.com	27/35	Sourabh raosaheb patil	60	2263151242015	Div-A
12/10/2023 12:12:48 sourabhpatil1745@gmail.com	28/35	Snehal Sunil Patil	59	2263151242090	Div-A
12/10/2023 12:12:49 snehalpatil8095@gmail.com	18/35	Sarthak Raosaheb Golde	10	2263151242014	Div-B
1: 2023 12:12:55 sarthakpatil7249@gmail.com	20/35		61	2363151242510	Div-B
12/10/2023 12:13:09 rushikeshpatil9952@gmail.com	30/35	Patil Rushikesh Rajaram	14	2263151242510	Div-B
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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		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-D

Subject Incharge S.A. Baber

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



H.O.D. HOD

Department of Computer Science & Engineering Sanjeevan Engg. & Tech. Institute Somwar Peth, Panhala - 416 201 DTE Code : ENG31.5



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Vision- To be the institution of excellence by imparting quality educe transforming students into competent professionals with societal re ATLE.

A.			Aca	demic	Cale	ndar	for		023-2024 (Odd Semester)	
Month		Week Days		Week Days					Events	Events
ž	MON	TUE	WED	THUR	FRI	SAT	SUN	Ň		
		1	2	3	4	5	6	0	4- Commencement meeting 7- Reporting & Commencement of Classes,	
E	7	8	9	10	11	12	13	6	7 12 EV Orientation	
AUGUST	14	15	16	17	18	19	20	3	15 - Independence Day,16 -Parsi New Year	
AU	21	22	23	24	25	26	27	6	6	
	28	29	30	31				4		
-					1	2	3	1		
35	4	5	6	7	8	9	10	6	8,9 CA-1	
SEPTEMBU	11	12	13	14	15	16	17	5	15- Engineer's Day Celebration	
TT	18	10	·20	21	22	23	24	5	19- Ganesh Chaturthi, 23- Parent Teacher Meet	
SE	25	26	27	28	29	30		4	28- Eid-e-Milad	
						1	1	0	1 Str	
	Tio Te	3	4	5	6	7	8	4	02- Mahatma Gandh: Jayanti, 03-06- Mid Semester Exam.	
OCTOBER	9	10	11	12	13	14	15	6		
TOI	16	17	18	19	20	21	22	5		
00	23	24	25	26	27	28	29	5	24-Dussehra	
	30	31						2		
			1	2	3	4	5	3		
BER	6	7	8	9	10	11	12	6	09 10-CA-2, 12- Laxmi Pujan	
B	13	145	15	16	17	18	19	4	14- Bali Pratipada	
2	20	21	22	23	24	25	26	3	22- End of Classes, 23-30 Practical Examination, 23-PTM	
Ž	27	28	29	30				0	27- Guru Nanak Jayan	
-					1	2	3	0	01-13 End Semester Examination	
BER	4	5	6	7	8	9	10	0	15-31- Field Training/Internship/Industrial Training	
MB	11	12	13	14	15	16	17	0		
DECEM	18	19	20	21	22	23	24	0		
D	1 28	26	27	28	29		31	0	25- Christmas	
Govt	Holiday			MSE/Pra		-		78	01st January 2024 Commencement of Classes for Next	
	ctivities	and the second second				loliday	7.1		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 sep, rate calendar to reflect departmental activities, Industrial Visits and Student Intrenship:



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O Appunved By AJCTR, New Delht O Recognized by Govt, of Maharashra & DTE O Permanent Affiliation by Dr. Habasahabi Ambedhar Technological University, Raigad

DTE Code : ISNG:BI .5

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

all's		305.	Acad	emic (	Calen	dar	for A	.Y. 2	023-2024 (Even Semester)
Month				ek Day:				working days	
Σ	MON	TUE	WED	THUR	FRI	SAT	SUN	ow D	
~			L	1	2	4.3,7		2	1- Commencement of Classes
FEBRUARY	5	6	7	8	9	10	414	6	the second s
BRL	12	13	14	15	16	17	1	5	
FE	- The	20	21	22	23	24	-	5	19- Chhatrapati Shivaji Maharaj Jayanti
	26	27	28	29				4	29-CA-01
1					1	2		1	1-CA-01
E	4	5	6	7		9	38	5	4-7- Sports, 8- Annual Social Gathering, 8-Mahashivratri
MARCH	11	12	13	14	15	16	1	5	
Σ	18	19	20	21	22	23	to make man	6	23- Parikrama
	A later and	26	27	28	1.20	-30,	- 25.	3	25-Dhulivandan, 29-Good Friday
	1	2	3	4	5	6	The second	5	
APRIL	8	24.	10	Ser	12	13		4	9-Gudhi Padwa, 11- Ramzan Id(Id-Ul-Fitra), 14-Dr.Babasaheb Ambedkar Jayanti
API	15	16	- that	18	19	20		5	17-Shri Ram Navami <mark>, 18-20- MSE,</mark> 21-Mahavir Jayanti
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МАУ	13	14	15	16	17	18		5	
	20	21	22	-1-11	24	25	×3	5	23-Buddha Pounima, 25- End of Classes
-	27	28	29	30	31				27-31- Practical Examination
	Real and	Anis and	C. Sala		Satisfactory of the	al.			
JUNE	3	4	5	6	7	8			2.14. End C
2	10	11	12	13	14	15			3-14- End Semester Exam.
	24	18	19	20	21	22	300 100		17- Bakri Id (Id-Ul-Zuha)
Gov	24 L Holiday	25	26	27		29,	i,		
-	Activities		CA,	MSE/Pra			なな	80	29 July - Result Declaration,
_	e: 1. The 2. In al	above ign wit	dates a h this, i ndustri	re subje	itute Hi ct to ch artmen ind Stu	ange	as per I prep ntren	the gu are th ships e	of Aug- Commencement of Classes for Next Semester uldelines of regulating authorites.
_				Dean	Acad	femica			Principal



Date: 15th Sept. 2023

### Time - Table

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

Date	Time		Class / Subjects	
Date	Time	S. Y.	Т. Ү.	B. Tech.
	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
26/00/2022	11:30 am to 12:00 pm	Thermodynamics	Theory of Machines- II	Advanced IC Engines
26/09/2023	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** 





Date: 15th Sept. 2023

## <u>Time - Table</u>

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

Date	Time		Class / Subjects						
		S. Y.	Т. Ү.	B. Tech.					
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Prof. S. B. Deshmukh **Examination Incharge** 

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Dr. V. H. Deokar **Head of Department** 



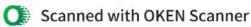
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175			LUNAR	TECHNOLC	GICAL LINIVERSITY LONERE
		SANTEEVAN DW	Holy-	wood Academy, Kol	GICAL UNIVERSITY, LONERE
10	F)	Line Line	JINEERING	P. TEQUINE	
and the second		ID SEMESTE	REXAM	NATION OF	Mapur Y INSTITUTE, PANHALA. TABLE - October-2023
				INGLION TIME	TABLE - October-2023
Day & Date	Time	Branch Name	Class	2020-24	
		Computer	SY	Subject Code	Subject Name
	10.00 am	Civil	SY	BTBS301	Engineering Mathematics –III
	То	Electrical		BTBS301	Mathematics – III
	11.00am	Mechanical	SY	BTBS301	Engineering Mathematics-III
		First Year	SY	BTBS301	Engineering Mathematics III
Thursday,			All Div	BTBS101	Engineering Mathematics - I
26/10/2023	02.30 pm To 03.30 pm	Computer	SY	BTCOC302	
		Civil	SY	BTCVES302	Discrete Mathematics
		Electrical	SY		Mechanics of Solids
		Mechanical	SY	BTEEC302	Electrical Machines-I
		States of the second second	a second s	BTMEC302	Fluid Mechanics
		First Year	DivC	BTBS102	Engineering Physics
		Computer	The second se	BTBS102	Engineering Chemistry
		Civil	SY	BTCOC303	Data Structures
	10.00 am		SY	BTCVC303	Building Construction & Drawing
	То	Electrical	SY	BTEEC303	Electrical & Electronics Measurement
	11.00am	Mechanical	SY /	BTMC303	Thermodynamics 🥖
Friday		First Year	Div A & B	BTES103	Engineering Graphics
Friday, 27/10/2023		. not real	Div C	BTES103	Engineering Mechanics
1110/2023		Computer	SY	BTCOC304	Computer Architecture & Organization
	02.00 pm	Civil	SY	BTCVC304	Hydraulics -I
	S COMPANY OF THE PROPERTY OF	Electrical	SY	BTES305	Engineering Material Science
	To	Mechanical	SY	and the second se	Material Science & Metallurgy
	03.00 pm		Div A & B		Communication Skills
				BTES104	Computer Programming in C
Saturday,	10.00 am	the second s		BTCOC305	(b) Object Oriented Programming in Java
8/10/2023	То	A second of the second s	SY	BTCVC305	Surveying
VI2023	11.00am				Energy and Environment Engineering



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and the second		SANJEEVAN ENG	Hol	y-wood Academy,	Kolhapur OGY INSTITUTE, PANHALA.
				ON October 200	OGY INSTITUTE, PANHALA.
Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
		Computer	IY	BTCOC501	Database Systems
			B.Tech	BTCOC701	Artificial Intelligence
	10.00 am	Civil	TY	BTCVC 501	Design of Steel Structures
	То		B.Tech	BTCVC701	Design of Concrete Structures - II
	11.00am	Electrical	TY	BTEEC501	Power System Analysis
		a second second second	B. Lech	BTEEC701	High Voltage Engineering
Thursday		Mechanical		BTMC501 BTMEC701	Heat Transfer
12/10/2023			TY		Mechatronics
		Computer		BTCOC502 BTCOE702	Theory of Computation
	02.20	0: "	TY	BTCVC 502	Cloud Computing Geotechnical Engineering
	02.30 pm To	Civil		BTCVC702	Infrastructure Engineering
	03.30 pm	Electrical	TY	BTEEC502	Microprocessor and Microcontroller
	03.30 pm	Liectrical	B.Tech	BTEEC702	Power System Operation & Control
		Mechanical	TY	BTMC502	Machine Design - 17 🗸
		meenanicar	<b>B.Tech</b>	BTMEC702	Industrial Engineering and Management/
		Computer	TY	BTCOC503	Software Engineering
		Computer		BTCOE703	c) Big data Analytics
	10.00 am	Civil	TY	BTCVC 503	Structural Mechanics –II
	То			BTCVC703	Water Resources Engineering
	11.00am	Electrical	TY	BTEEC503	Power Electronics
		-	B.Tech	BTEEOE703 BTMC503	Electrical Utilization Theory of Machines -II
Friday,		Mechanical	and the second se	BTMEC703D	Advanced IC Engines
13/10/2023			TY	BTCOE504	a) Human Computer Intereaction
10/10/2020		Computer		BTCOE704	a) Cryptography and Network Security
	02.30 pm To		TY	BTCVC 504	Concrete Technology
		Civil		BTCVC704	Professional Practices
1		<b>T</b> 1 <b>1 1</b>	TY	BTEEPE504	(A) HVDC
	03.30 pm	Electrical	B.Tech	BTEEOE704	Mechantronics
		Mechanical	TY 🖊	BTAPE504D	Automobile Engineering
		Wechanica		BTMEC704C	Pant Maintenance
				BTHM505	(b) Business Communication
		Computer		BTCOE705	b) Deep Learning
		Civil	TY	BTHM505	Project Management
	10.00 am			BTCVE705A	Construction Techniques (B) Electrical Safety
Saturday,	To 11.00am	Electrical	TY	BTEEOE505	Electric and Hybrid Electric vehicles
4/10/2023	11.00am		B. Tech	BTEEOE705 BTMOE505C	Human Resource Management
-10/2023		Mechanical		BTMOE705C	Intellectual Property Rights
		in our of the second se			
	02.30 pm	Civil	TY	BTCVPE506	Material, Testing and Evaluation
	То			BTCVOE706D	Introduction to Earthquake Engineering
	03.30 pm	Mechanical	TY	BTMEC502	Applied memodynamics



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## <u> Time - Table</u>

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

	<b>T</b> :		Class / Subjects	
Date	Time	S. Y.	т. ү.	B. Tech.
	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
10/11/2023	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

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Dr. V. H. Deokar Head of Department





Date: 26th Feb. 2024

# <u> Time - Table</u>

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

Date	Time	Class / Subjects					
		S. Y.	Т. Ү.	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			
23/02/2024 -	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			

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Prof. S. B. Deshmukh **Examination Incharge** 

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

for

Dr. V. H. Deokar **Head of Department** 



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	-	Artes 1	ins i press	Of the Advertised Process of the property of the Advertised Advertised at Advertised Advertised and Advertised
	MID TERM E	AMINA	TION - Sump	ner 2024 TIME TABLE
	Branch Name	Class		
Time	Dianen maine		Subject Code	Subject Name
	Computer Sci. & Engg -	TY	BTCOC401 BTCOC601	Design and Analysis of Algorithm
		SY	BTCVC401	Compiler design Building Planning and Drawing
9:30 am To	Civil Engg	TY	BTCVC601	Design of RC Structures
	2	B.Tech	BTCVSS801D	Maintenance and Repair Of Concrete Structures
10:30am	Electrical Engg.	 TY	BIEEC401	Network Theory
1	Sector Carta	SY	BTEEC601 BTMC401	Switchgear and Protection Manufacturing process - 1
	Mechanical Engg	TY	BTMC601	Manufacturing process - I
	and the second second second	B.Tech	BTMEC801A	Fundamentals of Automotive systems
		SY	BICOGADO	
See .	Computer Sci. & Engg	TY	BTCOC402 BTCOC602	Operating System Computer Networks
12:30 pm	Civil Engg	SY	BTCVC402	Environmental Engineering
To	Citil Linga	TY	BTCVC602	Foundation Engineering
01:30 pm	Electrical Engg.	SY	BTEEC402	Power System
	and the second second second	TY SY	BTEEC602 BTMC402	Electrical Machine Design Theory of emchines - 1
	Mechanical Engg.	TY	BTMC602	Machine desgin - II
enc.		014		
a Starts	Computer Sci. & Engg	SY TY	BTHM403 BTCOC603	Basic Human Rights Machine learning
	Here and the second	SY	BTCVC403	Structural Mechanics - 1
3:30 pm	Civil Engg	TY	BTCVES603	Artificial Intelligence (NPTEL/SWAYAM)
to 4:30	all the the Alexin	B.Tech	BTCVSS802C	Remote Sensing Essentials
pm	Electrical Engg.	SY	BTEEC403	Electrical Machine-II
	Mechanical Enggi	TY SY	BTEEC603 BTHM403	Control System Engineering Basic Human Rights
ALC: N		TY	BTMPE603D	Elective - III (Engineering Metrology & quality control
		B.Tech	BTMEC801F	Non conventional energy resources
i and A		SY	BTBSC404	Probability and statistics
	Computer Sci. & Engg	TY	BTCOE604	Elective - IV
9:30 am	Chill Frank	SY	BTCVC404	Water Resources Engineering
To	Civil Engg	TY	BTCVC604	Transportation Engineering
10:30am	Electrical Engg.	SY TY	BTBS404 BTEEPE604	Analog and Digital Electronics
		SY	BTMES404	Group D - Smart Grid Technology Strength of Materials
Sec. S	Mechanical Engg.	TY	BTMPE604D	Elective - IV (Robotics)
		SY	BTES405	
	Computer Sci. & Engg	TY	BTHM605	Digital logic design & Microprocessors Elective - V
12:30 pm	1. 01 1 F	SY	BTCVC405	Hydraulics - II
To	See all the second second second	TY	BTCVPE605	Industrial Waste Treatment
01:30 pm	Electrical Engg.	SY	BTEEPE405	Group A - Advance Renewable Energy Sources
A State .		TY	BTEEOE605 BTMPE405A	Group c - r ower Flant Engineenno
12 + 2 · ·	Mechanical Engl.	TY	BTMOE 605C	Open elective - II (Engen C
3:30 pm	1. 40 C			
to 4:30	Civil Engg			
to 4:30	Civil Engg	NEVNER TO THE	BICVC406	Engineering Geology Busic Human Rights

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Date: 11th May 2024

## <u> Time - Table</u>

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

Date	Time	Class / Subjects					
Dute	Thire	S. Y.	Т. Ү.	B. Tech.			
	10:00 am to 10:30 am	Manufacturing Processes – I	Manufacturing Processes- II	Fundamentals of Automotive Systems			
13/05/2024	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	-			
14/05/2024	12:00 pm to 12:30 pm	Numerical Methods in Engineering	Energy Conservation and Management	-			

Prof. S. B. Deshmukh **Examination Incharge** 

Dr. V. H. Deokar **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	со	РО	BL	Marks
Raindrops are spherical because ofa) Viscosityb) Air resistancec) Surface tension forced) 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
<ul> <li>Newton's law of viscosity is a relationship between,</li> <li>a) Pressure, velocity and temperature</li> <li>b) Shear stress and rate of shear strain</li> <li>c) Shear stress and velocity</li> <li>d) Rate of shear strain and temperature</li> </ul>	1	1	BL1	1
The ratio of absolute viscosity to mass density is known as,a) Specific viscosityb) Viscosity indexc) Kinematic viscosityd) Coefficient of viscosity	1	1	BL1	1
<ul> <li>Meta-centric height is given as the distance between,</li> <li>a) The center of gravity of the body and the metacenter</li> <li>b) The center of gravity of the body and the center of buoyancy</li> <li>c) The center of gravity of the body and the center of pressure</li> <li>d) Center of buoyancy and metacenter</li> </ul>	2	1	BL1	1

Q. No.	Questions	CO	PO	BL	Ma
6.	State Pascal's Law and buoyancy force	2	1	BL1	
			1		
Ans				- 	
		_		~	
		4.4	1.24	1000	
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	
		5			
An	IS		5		
			17		
	**************************************	*****	*****		



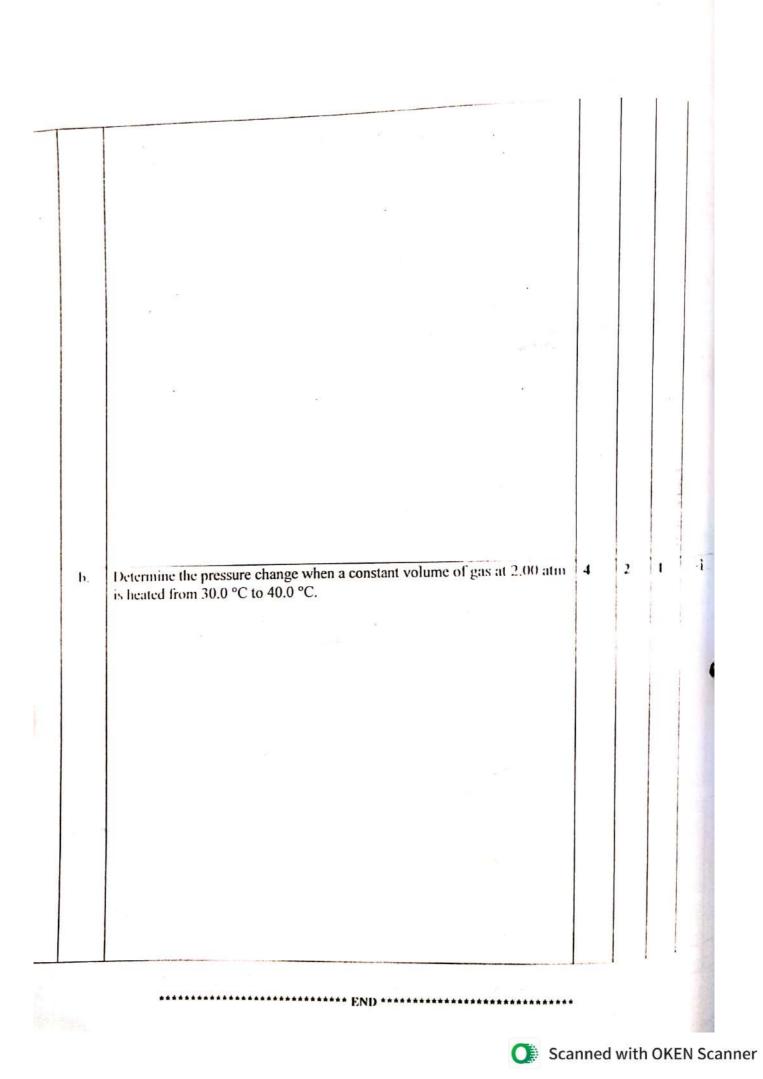
F	DR. BABASAHEB AMBEDKAR TEG Sanjeevan Engineering & Te Department of Mark	
Calledon and the second	Mid Semester E	nanical Engineering
NY-NOOd Academy.	SEMESTER: III NAME Of STUDENT:	ACADEMIC YEAR: 2023-24
* ( M P ) *	CLASS: S.Y	PRN.:
atre fir stot a	DAY & DATE: Thursday,26/10/2023	Time : 2.30 pm to 3.30 pm
	SUBJECT NAME WITH CODE: Fluid M	Marks: 20

Instructions to the Students:

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

Question No.	Sub Question	Question	C	21 1 2 3		Mark
1.		Attempt the Following	0		D L	
	а.			4×	1 =4	
	а.	The flow in a pipe is laminar when Reynolds number is (a) less than 2000	2	4	1	1
		Constraint - Constraint Management - Constraint - Const				
		(b) between 2000 and 4000				
		(c) more than 4000				
		(d) none of these			1	
	b.	The flow in which conditions do not change with time at any point is known as	2	1	1	1
		(a) 1-D flow				
		(b) steady flow				
		(c) streamline flow				
		(d) uniform flow				
t	C.	Which of the following assumption is true about Bernoulli's equation	3	1	3	1
		(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				
F	d.	The discharge velocity in the orifice meter is measured by using which of the following?	3	1	2	1
	1	(a) Rotameter				
	2	(b) Venturimeter				
	3	(c) Pitot tube				
		(d) Elbow meter				
2.		C. L. A way Two of The Following	×2 =	-		
	2	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. 1	Explain Reynold's experiment.	3	4	4	3
		10				
3	1	Solve Any two of the following	2	2	4	5
		Derive Expression for Venturimeter.	2	3	6	5
-	b. 1 c. 1	Derive three dimensional continuity equation. Derive expression for head loss due to friction during flow through	3	2	1	5
		pipe.		_		

10	DR. BABASAHEB AMBEDKAR TECHNICAL Sanjeevan Engineering & The Internet	UNIVEDS	ITV I	ONE	DE	-
	Sanjeevan Engineering & Technology	Institute	Panha	la	KE.	
	Department of Mechanical E	ngineerin	σ	14.		
anna	Continuous Assessment-	1 2022	6			-
	SEMESTER: III				00000	-
(A)-	NAME OF STUDENT.	ACADEM	IC YE	AR: 2	.023-2	4
æ	CLASS: S.Y. B. Tech	PRN.:				_
SWEITHAR DES	DAY & DATE: 10/11/2022	Time :				
	SUBJECT NAME WITH CODE: Thermodynamics l	Marks: 20				
Instru	ctions to the Students:	BTMC303				
1.	All questions are compulsory					
2.	Assume suitable data if necessary					
	Use of non-programmable calculator is allowed Question					
Sub Que.	Variation		CO	PO	BL	M:
	Attempt the Following	4×1 =				
a.	An air-conditioner provides 1 kg/s of air at 15°C cooled from o	utaida	3	1	2	100
1	atmospheric air at 55°C. Estimate the amount of power needed	to operate	1	1	-	
1	the air-conditioner. a) 1.09 kW b) 1.19 kW					
	c) $1.29 \text{ kW}$ d) $1.39 \text{ kW}$					
b. /	A cyclic machine, as shown below, receives 325 kJ from a 1000	K energy	3	1	2	
r	reservoir. It rejects 125 kJ to a 400 K energy reservoir and the c	vele		•	~	
F	produces 200kJ of work as output. Is this cycle reversible, irrev impossible?	ersible, or				
	a) reversible b) irreversible					
	c) impossible d) none of the mentioned					
	A car engine operates with a thermal efficiency of 35%. Assume		3	1	1	1
	conditioner has a coefficient of performance of 3 working as a r cooling the inside using engine shaft work to drive it. How muc					
	energy should be spend extra to remove 1 kJ from the inside?	n niet				
	) 0.752 kJ b) 0.952 kJ					
	0.852 kJ d) none of the mentioned					
	What is the name of the graph that is drawn, when the temperate onstant?	ne is kept	3	1	2	1
	) Isotherm b) Isochoric and isobar					
	) Isochoric d) Isobar					
<u> </u>		1424				
a. A	attempt The Following	3×2	-6 .			
CE0.	tate and explain Boyle's Law.		4	2	2	3
	a. Local ■ Constraining and the Expression and ECCEDE (EACH 2010)					
					1	



DR. BABASAHEB AMBEDKAR TECHN	NICAL UNIVERSITY, LONERE.
Sanjeevan Engineering & Tech	nology Institute, Panhala
Department of Mechani	ical Engineering
CA-1	
SEMESTER: IV	ACADEMIC YEAR: 2023-2
NAME OF STUDENT:	ROLL No.:
CLASS: S.Y.	MARKS: 10
DAY & DATE : Wednesday, 28/02/2024	

## **NSTRUCTIONS:**

- 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.

Т	Questions	со	ро	Examiner Marks
	Mechanization can be the reason for creativity and involvement in working	C01	PO5	
	for the production of castings. a) True b) False	COI	POI	
	Loam sand comprises of a.50% sand and 10% moisture b.40% clay and 10% moisture d.80% clay and 20% moisture			
	Permeability of green sand b) Decreases with ramming	COI	POI	
	a) Increases with ramming (b) Does not alter with ramming c. Increase and decrease with ramming (d) Does not alter with ramming Which of the following is not a limitation of wooden patterns?	COI	POI	
	a) Get abraded easily d) Poor wear resistance	COI	POI	
	<ul> <li>c) Difficult machining</li> <li>d) Four and the following processes is known as fettling?</li> <li>Which of the following processes is known as fettling?</li> <li>a) Cleaning of castings</li> <li>b) Pouring of melt into mould</li> <li>c) Releasing of gases from the melt</li> <li>d) Inclusion of slag in the castings</li> </ul>			



Q. No.	Questions	C0	PO	Exam
	Que. Types of pattern.	COI	POI	Mar
	Ans:		1	
7.				
	5 g			
	Que. What is forming & explain Rolling Process.	602	Por	
	Ans:	CO2	PO1	
			1.0	
			-	
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8.		-		
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		2		
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