



डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ, लोणेरे

Dr. Babasaheb Ambedkar Technological University, Lonere

(Established under Act No XXIX of 2014 by government of Maharashtra)

विद्याविहार, लोणेरे-रायगड ४०२ १०३ (महाराष्ट्र) Vidyavihar, Lonere - Raigad 402 103 (Maharashtra)

Tel: (02140) 275142 Student Helpline: 02140-275212

Website: www.dbatu.ac.in, E-mail: registrar@dbatu.ac.in



Dr. Bhagwan F. Jogi
Registrar

डॉ. भगवान फ. जोगी
कुलसचिव

Dated: 12/ 08/2022

Academic Calendar 2022-23 (Odd Semester) (Engineering)

Sl. No.	Activity	Commencement Date	Concluding Date	Total Days	Engineering
1	Admissions: B.Tech. Second, Third and Final Year; M.Tech. Second year.	September 01, 2022	September 10, 2022	10	UG and PG
2	Commencement of Classes of Second, Third and Final Year	September 01, 2022	December 19, 2022	110	UG and PG
3	Dissertation Examination of the Academic Year 2021-2022	September 01, 2022	September 10, 2022	10	PG
4	Mid-Semester Examinations	October 12, 2022	October 21, 2022	09	UG and PG
5	Submission of Dissertation Proposal to University	October 18, 2022	October 21, 2022	04	PG
6	Display of Mid-Semester Examination Marks	October 28, 2022	October 31, 2022	04	UG and PG
7	Scrutiny of Master's Level Dissertation Work Proposal	November 01, 2022	November 03, 2022	03	PG
8	Exam Form Filling for Regular & Supplementary Examinations	November 01, 2022	November 08, 2022	08	UG and PG
9	Exam Form Filling for Regular & Supplementary Examinations with Late Fee	November 09, 2022	November 15, 2022	07	UG and PG
10	University Tech Fest 2021	November 17, 2022	November 19, 2022	03	UG and PG
11	End of Classes	--	December 19, 2022	110	UG and PG
12	Practical/Project/Seminar Examinations	December 20, 2022	December 23, 2022	04	UG and PG
13	Uploading Internal, Mid Semester, Practical, Project and Seminar marks on University portal	December 22, 2022	December 24, 2022	03	UG and PG
14	End Semester Regular & Supplementary Examination	December 26, 2022	January 21, 2023	26	UG and PG
15	Internship/Industrial Training#				
16	Vacation	January 1, 2023	January 20, 2023	20	Faculty and Staff



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Date: 12/08/2022

17	Commencement of Classes	February 1, 2023	May 31, 2022	120	UG and PG
18	Remedial Examination	February 21, 2023	March 3, 2023	10	UG and PG

#Industrial training will be carried out after completion of odd semester or in the staggered manner in the period of entire odd semester (Preferably on Saturdays, Sundays and Holidays) and partially in the vacation after odd semester. Another option could be permit the training in online mode which is not less than 120 hours.

Table 2 : List of Festivals / Holidays

Sl. No.	Festivals / Holidays	Date
1	Dasara	Wednesday, 05 October, 2022
2	Diwali Laxmi Pujan	Monday, 24 October, 2022
3	Diwali Balipratipada	Wednesday, 26 October, 2022
4	Guru Nanak Jayanti	Tuesday, 08 November, 2022

Table 3 : Following Holidays fall on Sunday

Sl. No.	Festivals / Holidays	Date
1	Mahatma Gandhi Jayanti	02 October, 2022
2	Id-E-Milad	09 October, 2022
3	Christmas	25 December, 2022

3/12.08.2022
(Dr. B. F. Jogi)
Registrar



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कुलसचिव

DBATU /REG/AC / 2022 / 341/A

Dated: 17/10/2023

Academic Calendar-UG Sem. VI & VIII Revised (AY 2022-23)

Sr. No.	Activity	Commencement Date	Concluding Date	Total Days	Level
1	Commencement of Classes	20 th Feb 23	30 th May 23	100	UG
2	Mid Semester Examination	10 th April 2023	15 th Apr 23	05	UG
3	End of Classes		30 th May 23		UG
4	End Semester Examination	1 st June 23	10 th June 23	10	UG
5	Practical/Project/Seminar Examination	11 th June 23	20 th June 23	03	UG
6	Result Declaration		15 th July 23		
7	Commencement of Classes for Next semester	20 th July 23			
Holiday	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday		14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 5 May – Buddha Pournima 29 June – Bakari Eid		

Copy submitted for information: Office of Hon'ble Vice-Chancellor
Copy to:

1. All heads of departments
2. Affiliated Institutes
3. Academic Section
4. Controller of Examinations



Dr. B. F. Jogi
Registrar

REGISTRAR

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LONERE 402 103,
Tal Mangaon, Dist. Raigad, (Maharashtra)



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कुलसचिव

DBATU /REH/DSY/ 2022 / 277

Dated: 11/11/2022

Subject: Academic Calendar Direct Second Year Semester-III (AY 2022-2023)

Academic Calendar Direct Second Year Semester-III (AY 2022-2023)

Sr. No.	Activity	Commencement Date	Concluding Date	Total Days	Level
1	Commencement of Classes	14 th November 2022	20 th February 2023	86	Direct Second Year
2	Mid Semester Examination	19 th January 2023	21 st January 2023	03	Direct Second Year
3	End of Classes	-	20 th February 2023	--	Direct Second Year
4	Practical Examination	21 st February 2023	22 nd February 2023	02	Direct Second Year
5	End Semester Examination	06 th March 2023	11 th March 2023	06	Direct Second Year
6	Result Declaration	-	17 th April 2023	--	Direct Second Year
7	Commencement of Classes for Next semester	13 th March 2023	-		Direct Second Year
Holidays	• 25th Dec. 2022 Christmas • 26th Jan. 2023 Republic Day • 18th Feb. 2023 Mahashivratri • 19th Feb. 2023 Chhatrapati Shivaji Maharaj Jayanti • 07th Mar. 2023 Dhulivandan • 22nd Mar. 2023 Gudi Padwa • 30th Mar. 2023 Ram Navami • 04th Apr. 2023 Mahavir Jayanti • 07th Apr. 2023 Good Friday • 14th Apr. 2023 Dr. Babasaheb Ambedkar Jayanti • 01st May 2023 Maharashtra Din • 05th May. 2023 Buddha Pournima				

* For Direct Second Year students all Saturdays (excluding Government Holidays) shall be considered as a working days.

* Regular SY & DSY Exams. will be conducted at the same time from 6th – 11th March 2023.

* SY Regular students will have to complete their internship requirement before exams.

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Student Helpline : 02140-275212



स्वातंत्र्याचा अमृत महोत्सव

Dr. Bhagwan F. Jogi
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डॉ. भगवान फ. जोगी
कुलसचिव

DBATU / REG / AC / 2022 / 366/A

Academic Calendar – UG Sem. IV Revised (AY 2022 – 23)

Dated: 18/03/2023

Sr. No.	Activity	Commencement Date	Concluding Date	Total Days	Level
1	Commencement of Classes	20 th March 23	20 th June 23	90	UG
2	Mid Semester Examination	8 th May 2023	12 th May 23	05	UG
3	End of Classes		20 th June 23		UG
4	End Semester Examination	21 st June 23	30 th June 23	10	UG
5	Practical/Project/Seminar Examination	1 st July 23	10 th July 23	04	UG
6	Result Declaration		30 th July 23		
7	Commencement of Classes for next semester	1 st Aug. 23			
Holiday	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday		14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 5 May – Buddha Pournima 29 June – Bakari Eid		

- 1) All Sundays to be made working except public holidays.
- 2) Institute may allot additional lectures than prescribed to cover the syllabus.



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डॉ. भगवान फ. जोगी
कुलसचिव

DBATU / REG / OFC / 2023 / 1383

Dated: 24 / 03 / 2022

Academic Calendar Semester-II Revised (AY 2022-2023)

Sr. No.	Activity	Commencement Date	Concluding Date	Level
1	Commencement of Classes	1 st April 2023	20 th June 2023	UG
2	Mid Semester Examination	8 th May 2023	12 th May 2023	UG
3	End of Classes	-	20 th June 2023	UG
4	End Semester Examination	21 st June 2023	30 th June 2023	UG
5	Practical Examination	1 st July 2023	10 th July 2023	UG
6	Result Declaration	-	30 th July 2023	UG
7	Commencement of Classes for Next semester	1 st August 2023		UG
Holidays	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday		14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Din 5 May – Buddha Pournima 29 June – Bakari Eid	

- 1) All Sundays to be made working except public holidays.
- 2) Institute may allot additional lectures than prescribed to cover the syllabus.

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LONERE 402 103.
Tal. Mangaon, Dist. Raigad, (Maharashtra)

Academic Calendar for SY, TY & B.Tech Odd Semester (Academic Year - 2022-2023)

Month	Week No.	Week Days							No. of working days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
Sep-22	1				1	2	3	4	2	Student Internship
	2	5	6	7	8	9	10	11	6	10 - Principal Address & Commencement Meeting (NBA)
	3	12	13	14	15	16	17	18	5	12 - Reporting to office & Commencement of Academics 12 to 17 - GTT Training 15 - Engineers Day Celebration, FY Bridge Course
	4	19	20	21	22	23	24	25	6	24 - Department Association Inauguration
	5	26	27	28	29	30			5	28 - Student Categorization(Week, Average, Bright) 29, 30 - CA I
Oct-22	6						1	2	0	02 - Mahatma Gandhi Jayanti
	7	3	4	5	6	7	8	9	5	05 - Dasara, 8 - Parents Teachers Meet, 9 - Id-E-Milad 8, 22, 29 - Dept. Level / NSS Activity, GATE Awareness Programme
	8	10	11	12	13	14	15	16	5	14 - Feedback from Students
	9	17	18	19	20	21	22	23	6	19 to 21 - MSE, 22 - Central NBA Review
	10	24	25	26	27	28	29	30	3	24 & 26 - Dipawali, 29 - Project Phase I Progress Report
	11	31							1	31 - Display of MSE Marks
Nov-22	12		1	2	3	4	5	6	4	1 to 8 - Exam Form Filling for Regular & Supplementary Examinations
	13	7	8	9	10	11	12	13	5	08 - Guru Nanak Jayanti 12, 26 - Dept. Level / NSS Activity, 12 - Central NBA Review
	14	14	15	16	17	18	19	20	5	9 to 15 - Exam form filling with Late fee, 17 to 19- University Tech fest
	15	21	22	23	24	25	26	27	6	26- Project Phase I Progress Presentation
	16	28	29	30					3	30 - Feedback from Students
Dec-22	17				1	2	3	4	2	1 & 2 - CA II
	18	5	6	7	8	9	10	11	6	10 - Department Level / NSS Activity & Parents Teachers Meet
	19	12	13	14	15	16	17	18	5	
	20	19	20	21	22	23	24	25	1	19 - End of Classes, 20 to 23 - Practical/project/ Seminar Examination, 25th Dec - Christmas Day, 22 to 24 - Uploading Internal & Practical marks
		26	27	28	29	30	31			
Jan-23								1		
		2	3	4	5	6	7	8		26th December 2022 to 21st January 2023 - End Semester Regular & Supplementary Examinations
		9	10	11	12	13	14	15		
		16	17	18	19	20	21	22		
		23	24	25	26	27	28	29		26th Jan - Republic Day, 28 - NBA Review- Dept. Presentation
Feb-23				1	2	3	4	5		1st February 2023 to 31st May 2023 - Academic Year 2022-23 Even Semester
		6	7	8	9	10	11	12		11 - NBA Review- Dept. Presentation
		13	14	15	16	17	18	19		
		20	21	22	23	24	25	26		21st February to 3rd March 2023 - Remedial Examinations
		27	28							

Total Working Days/110

81

Govt. Holiday

Activities

Internal/ Practical Exam

Holiday



Prepared by
Mr. P. P. Kulkarni



Principal

DTE Code : **EN6315**

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165**SANJEEVAN****ENGINEERING & TECHNOLOGY INSTITUTE, PANDHARA**Sanjeevan Knowledge City, Somwar Peth-Injole, Pandhara, Tal. Pandhara, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra & DTE
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad**Vision- SETI to educate to excel in social transformation****Academic Calendar Even Semester (Academic Year: 2022-2023)**

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28						2	27 - Commencement of Semester VI & VIII
MARCH			1	2	3	4	5	3	
	6	7	8	9	10	11	12	5	07 - Dhulivandan
	13	14	15	16	17	18	19	5	13 - Commencement of Semester IV
	20	21	22	23	24	25	26	5	22 - Gudhi Padwa
	27	28	29	30	31			4	27-29 - CA-I For Sem VI & VIII, 30- Ram Navami
APRIL						1	2	0	
	3	4	5	6	7	8	9	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	10	11	12	13	14	15	16	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	17	18	19	20	21	22	23	5	19-21- MSE Sem VI & VIII, 22 - Ramzan-Id
	24	25	26	27	28	29	30	5	28- Parent Meet for Sem VI & VIII
MAY	1	2	3	4	5	6	7	3	01- Maharashtra Din, 02-03- CA-I For Sem II, 05- Buddha Pournima
	8	9	10	11	12	13	14	6	08-10- CA-II Exam Sem VI & VIII
	15	16	17	18	19	20	21	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester
	22	23	24	25	26	27	28	6	25-27 - Pratical/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
	29	30	31					3	29 May- 02 June- MSE For Sem II
JUNE				1	2	3	4	2	29 May- 02 June- MSE For Sem II
	5	6	7	8	9	10	11	6	10- Parent Meet for Sem II
	12	13	14	15	16	17	18	5	12-23 ESE For Sem VI & VIII
	19	20	21	22	23	24	25	6	12-23 ESE For Sem VI & VIII
	26	27	28	29	30			4	28- Bakri Id, 29-30- CA-II For Sem II & IV
JULY						1	2	0	
	3	4	5	6	7	8	9	6	8- End of II & IV Semester
	10	11	12	13	14	15	16	5	09-10-Practical/Project/ Seminar Exam For Sem II & IV
	17	18	19	20	21	22	23	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	24	25	26	27	28	29	30		29- Moharum
	31								29 August- Result Declaration ESE For Sem II & IV
Govt. Holiday								105	17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V
Activities									

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

2. Each Department shall prepare their separate calendar to reflect departmental activities & Industrial Visits and Student Intrenship

Prepared By

Academic Dean

Vice Principal

Principal

DTE Code : ENG315



AACSB Accredited

AICTE No. : E-0010451
Affiliation Code : E-01065

SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANNHALA

Sanjeevan Knowledge City, Software Technology Park, Panhala, Dist. Kolhapur,
Pin - 416 201 (Maharashtra) Phone : 9141000530Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra & DTE
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Academic Calendar for Mechanical Department Odd Semester (Academic Year - 2022-2023)

Month	Week No.	Week Days							No. of working days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
Sep-22	1				1	2	3	4	2	Student Internship
	2	5	6	7	8	9	10	11	6	10 - Principal Address & Commencement Meeting (NBA)
	3	12	13	14	15	16	17	18	5	12 - Reporting to office & Commencement of Academics 12 to 17 - TY and Final Year students GTT Training 15 - Departmental Engineers Day Celebration
	4	19	20	21	22	23	24	25	6	24 - MESA Committee formation
	5	26	27	28	29	30			5	29, 30 - CA I
Oct-22	6						1	2	0	02 - Mahatma Gandhi Jayanti
	7	3	4	5	6	7	8	9	5	05 - Dasara, 8 - Parents Teachers Meet, 9 - Id-E-Milad 29 - GATE Awareness Programme
	8	10	11	12	13	14	15	16	5	14 - Feedback from Students
	9	17	18	19	20	21	22	23	6	19 to 21 - MSE
	10	24	25	26	27	28	29	30	3	24 & 26 - Dipawali, 29 - Project Phase I Progress
	11	31							1	31 - Display of MSE Marks
Nov-22	12		1	2	3	4	5	6	4	
	13	7	8	9	10	11	12	13	5	08 - Guru Nanak Jayanti 12, 26 - Dept. Level / NSS Activity
	14	14	15	16	17	18	19	20	5	
	15	21	22	23	24	25	26	27	6	26 - Project Phase I Progress Presentation
	16	28	29	30					3	30 - Feedback from Students
Dec-22	17				1	2	3	4	2	1 & 2 - CA II
	18	5	6	7	8	9	10	11	6	
	19	12	13	14	15	16	17	18	5	
	20	19	20	21	22	23	24	25	1	19 - End of Classes, 20 to 23 - Practical/project/ Seminar Examination, 25th Dec - Christmas Day, 22 to 24 - Uploading Internal & Practical marks
		26	27	28	29	30	31			
Jan-23								1		
		2	3	4	5	6	7	8		26th December 2022 to 21st January 2023 - End Semester Regular & Supplementary Examinations
		9	10	11	12	13	14	15		
		16	17	18	19	20	21	22		
		23	24	25	26	27	28	29		26th Jan - Republic Day
Feb-23				1	2	3	4	5		1st February 2023 to 31st May 2023 - Academic Year 2022-23 Even Semester
		6	7	8	9	10	11	12		11 - NBA Review- Dept. Presentation
		13	14	15	16	17	18	19		
		20	21	22	23	24	25	26		21st February to 3rd March 2023 - Remedial Examinations
		27	28							
Total Working Days/110									81	
Govt Holiday		Activities			Internal/ Practical Exam			Holiday		

HOD Mechanical

PRINCIPAL

Sanjeevan Engineering & Tech. Institute
Software Park, Panhala - 416 201Scanned with
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DTE Code : ENG 15

NAAC Accredited
AICTE ID : 1-8019431
AICTE Code : E-11185**SANJEEVAN**ENGINEERING & TECHNOLOGY INSTITUTE, PANCHALA
Sanjeevan Knowledge City, Somwar Peth, Indle, Panchala, Tal. Panchala, Dist. Kolhapur.
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Academic Calendar Mechanical Department
Even Semester (Academic Year: 2022-2023)

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28						2	27 - Commencement of Semester VI & VIII
MARCH			1	2	3	4	5	3	
	6	7	8	9	10	11	12	5	07 - Dhulivandan
	13	14	15	16	17	18	19	5	13 - Commencement of Semester IV
	20	21	22	23	24	25	26	5	22 - Gudhi Padwa
	27	28	29	30	31			4	27-29 - CA-I For Sem VI & VIII, 30- Ram Navami
APRIL						1	2	0	
	3	4	5	6	7	8	9	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	10	11	12	13	14	15	16	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	17	18	19	20	21	22	23	5	19-21 - MSE Sem VI & VIII, 22 - Ramzan-Id, 25 - Guest Lecture
	24	25	26	27	28	29	30	5	28- Parent Meet for Sem VI & VIII
MAY	1	2	3	4	5	6	7	3	01- Maharashtra Din, 02-03- CA-I For Sem II, 05- Buddha Pournima
	8	9	10	11	12	13	14	6	08-10- CA-II Exam Sem VI & VIII
	15	16	17	18	19	20	21	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester, 23 - Ind. Visist
	22	23	24	25	26	27	28	6	25-27 - Practical/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
	29	30	31					3	29 May- 02 June- MSE For Sem II
JUNE				1	2	3	4	2	29 May- 02 June- MSE For Sem II
	5	6	7	8	9	10	11	6	6 - Industrial Visit, 10- Parent Meet for Sem II
	12	13	14	15	16	17	18	5	12-23 ESE For Sem VI & VIII
	19	20	21	22	23	24	25	6	12-23 ESE For Sem VI & VIII
	26	27	28	29	30			4	28- Bakri Id, 29-30- CA-II For Sem II & IV
JULY						1	2	0	
	3	4	5	6	7	8	9	6	8- End of II & IV Semester
	10	11	12	13	14	15	16	5	09-10-Practical/Project/ Seminar Exam For Sem II & IV
	17	18	19	20	21	22	23	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	24	25	26	27	28	29	30		29- Moharum
Govt. Holiday									29 August- Result Declaration ESE For Sem II & IV
Activities								105	17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V

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

2. Each Department shall prepare their separate calendar to reflect departmental activities & Industrial Visits and Student Intrenship

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Mechanical Engineering Department

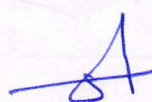
Date: 24th March 2023

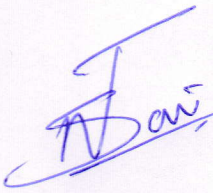
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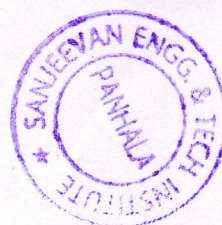
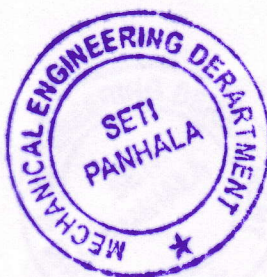
Continuous Assessment I

Date	Time	Subject	
		Third Year	Fourth Year
27/03/2023	9.45am - 10.15am	Manufacturing Processes II	Fundamental of Automotive Systems ✓
	10.30am – 11.00am	Machine Design II	Non-conventional Energy resources ✓
	11.30am – 12.00pm	IC Engine ✓	--
28/03/2023	9.45am - 10.15am	Robotics ✓	--
	10.30am – 11.00am	Energy Conservation and Management	--


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MECHANICAL ENGINEERING DEPARTMENT

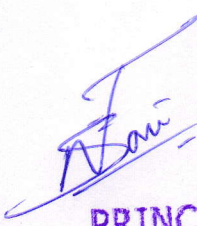
Date : 19th April 2023

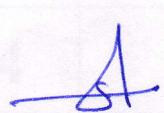
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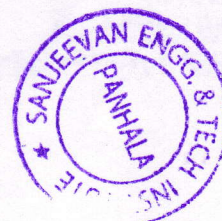
Continuous Assessment I

Date	Time	Subject
		Second Year
02/05/2023	10.00 am - 10.30 am	Manufacturing Processes - I ✓
	12.00 pm - 12.30 pm	Numerical Methods ✓
	02.30 pm - 03.00 pm	Theory of machine I
03/05/2023	10.00 am - 10.30 am	Basic Human Rights
	12.00 pm - 12.30 pm	Strength of materials ✓


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MECHANICAL ENGINEERING DEPARTMENT

Date: 19th April 2023

Time Table

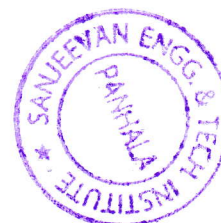
Mid Semester Examination

Date	Time	Subject	
		Third Year	Fourth Year
02/05/2023	10.00 am 11.00 am	Manufacturing Processes II ✓	Fundamental of Automotive Systems
	12.00 pm 01.00 pm	Machine Design II ✓	Non-conventional Energy resources ✓
	02.30 pm 03.30 pm	IC Engine ✓	--
03/05/2023	10.00 am 11.00 am	Robotics	--
	12.00 pm 01.00 pm	Energy Conservation and Management ✓	--

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MECHANICAL ENGINEERING DEPARTMENT

Date: 22/05/2023

Time Table

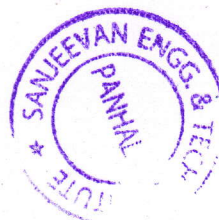
Mid Semester Examination

Date	Time	Subject
		Second Year
30/05/2023	10.00 am 11.00 am	Manufacturing Processes - I
	12.00 pm 01.00 pm	Numerical Methods
	02.30 pm 03.30 pm	Theory of machine I
31/05/2023	10.00 am 11.00 am	Basic Human Rights
	12.00 pm 01.00 pm	Strength of materials


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Mechanical Engineering Department

Date: 17th May 2023

Time Table

Continuous Assessment II

Date	Time	Subject	
		Third Year	Fourth Year
24/05/2023	10.00am - 10.30am	Manufacturing Processes II	✓ Fundamental of Automotive Systems ✓
	11.00 am - 11.30am	Machine Design II	✓ Non-conventional Energy resources ✓
	12.00 pm - 12.30 pm	✓ IC Engine	--
	02.00 pm - 02.30 pm	✓ Robotics ✓	--
	03.00 pm - 03.30 pm	✓ Energy Conservation and Management ✓	--

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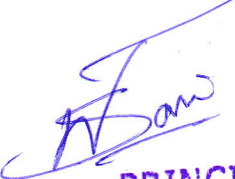
Date: 12th Oct. 2022

Time Table

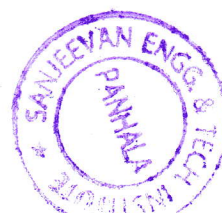
Continuous Assessment I

Date	Time	Subject		
		Second Year	Third Year	Fourth Year
17/10/2022	9.45am - 10.15am	Engineering Mathematics III	Heat Transfer	Mechatronics
	10.30am - 11.00am	Fluid Mechanics	Machine Design - I	CAD/CAM
	11.30am - 12.00pm	Thermodynamics	Theory of Machines -II	Manufacturing Processes -III
18/10/2022	9.45am - 10.15am	Material Science & Metallurgy	Automobile Engineering	RAAC
	10.30am - 11.00am	--	Renewable Energy Sources	--
	11.30am - 12.00pm	--	Applied Thermodynamics	--


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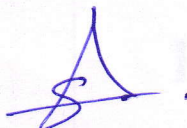
Date: 19th Dec. 2022

Time Table

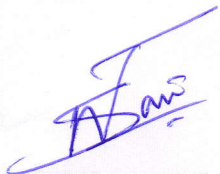
Continuous Assessment I

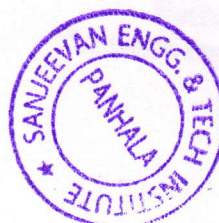
Date	Time	Subject
		Direct Second Year
23/12/2022	9.15am - 10.15am	Engineering Mathematics III
	10.30am – 11.00am	Fluid Mechanics
	11.30am – 12.00pm	Thermodynamics
	12.30 pm - 1.00 pm	Material Science & Metallurgy


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Date: 13th Jan. 2023

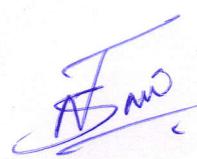
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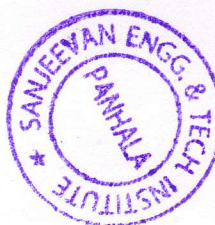
Mid Semester Examination

Date	Time	Subject
		Direct Second Year
20/01/2023	9.15am - 10.15am	Engineering Mathematics III
	10.30am - 11.30am	Fluid Mechanics
	12.30 pm - 1.30 pm	Thermodynamics
	3.15 pm - 4.15 pm	Material Science & Metallurgy


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Date: 10th Dec. 2022

Time Table

Continuous Assessment II

Date	Time	Subject		
		Second Year	Third Year	Fourth Year
19/12/2022	9.45am - 10.15am	Engineering Mathematics III	Heat Transfer ✓	Mechatronics
	10.30am - 11.00am	Fluid Mechanics ✓	Machine Design - I ✓	CAD/CAM
	11.30am - 12.00pm	Thermodynamics ✓	Theory of Machines -II ✓	Manufacturing Processes -III
20/12/2022	9.45am - 10.15am	Material Science & Metallurgy ✓	Automobile Engineering ✓	RAAC ✓
	10.30am - 11.00am	--	✓ Renewable Energy Sources	--
	11.30am - 12.00pm	--	✓ Applied Thermodynamics	--


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 	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.	
	Sanjeevan Engineering & Technology Institute, Panhala	
	Department of Mechanical Engineering	
	CA-I	
	SEMESTER: VII	ACADEMIC YEAR: 2022-23
NAME OF STUDENT:	ROLL NO.:	
CLASS: B. Tech. Final Year	MARKS: 10	
DAY & DATE : Monday, 17/10/2022	10.30 – 11.00 AM.	
SUBJECT: CAD/CAM (BTME702)		

INSTRUCTIONS:

- i. All questions are compulsory.

Q. No.	Question	Marks	CO
Q. 1.	Circle the correct answer		
a.	In computer aided drafting practice, an arc is defined by (a) Two end points only (b) Two end points and center (c) Radius and one end point (d) Center and radius	1	1
b.	GUI is the acronym for Graphical User Interface (a) True (b) False (c) Don't know (d) Can't tell	1	1
c.	Keyboard is a----- input device. (a) Graphical (b) Text (c) Numericals (d) All of the above	1	
d.	The widely employed computer architecture for CAD/CAM applications is: (a) Mainframe-based system (b) Minicomputer-based system (c) Microcomputer-based system (d) Workstation-based system	1	1
Q. 2.	Write long form of PLM Ans:	1	1
Q.3	Que. Draw a block diagram of Typical CAD process on CAD/CAM System <i>Note: Draw block diagram at the back side of this paper</i>	2	1
Q.8	Que. Line PQ with end points P(2,1), Q(7,6) is to be moved by 3 units in X-direction and 4 units in Y-direction. Determine the co-ordinates of end points for a translated line. <i>Note: Solve the problem at the back side of this paper</i>	3	1

***** END *****


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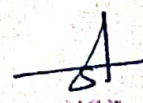
 	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.	
	Sanjeevan Engineering & Technology Institute, Panhala	
	Department of Mechanical Engineering	
	CA-I	
	SEMESTER: VII	ACADEMIC YEAR: 2022-23
	NAME OF STUDENT: SANKET S. JADHAV	ROLL NO.: 08
CLASS: B. Tech. Final Year	MARKS: 10	
DAY & DATE : Monday, 17/10/2022	10.30 - 11.00 AM.	
SUBJECT: CAD/CAM (BTME702)		

INSTRUCTIONS:

- i. All questions are compulsory.

Q. No.	Question	Marks	CO
Q. 1.	Circle the correct answer		
a.	In computer aided drafting practice, an arc is defined by (a) Two end points only (b) Two end points and center (c) Radius and one end point (d) Center and radius.	1	1
b.	GUI is the acronym for Graphical User Interface (a) True (b) False (c) Don't know (d) Can't tell	1	1
c.	Keyboard is a----- input device. (a) Graphical (b) Text (c) Numericals (d) All of the above	1	
d.	The widely employed computer architecture for CAD/CAM applications is: (a) Mainframe-based system (b) Minicomputer-based system (c) Microcomputer-based system (d) Workstation-based system	1	1
Q. 2.	Write long form of PLM Ans: <i>product lifecycle measurement</i>	1	1
Q.3	Que. Draw a block diagram of Typical CAD process on CAD/CAM System Note: Draw block diagram at the back side of this paper	2	1
Q.8	Que. Line PQ with end points P(2,1), Q(7,6) is to be moved by 3 units in X-direction and 4 units in Y-direction. Determine the co-ordinates of end points for a translated line. Note: Solve the problem at the back side of this paper	3	1

*****END*****


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Q 8]

$$tx = 3$$

$$ty = 4$$

$$\text{Translation Matrix } (T) = \begin{bmatrix} tx \\ ty \end{bmatrix} = \begin{bmatrix} 3 \\ 4 \end{bmatrix}$$

Line position

$$P' = [T] + [P]$$

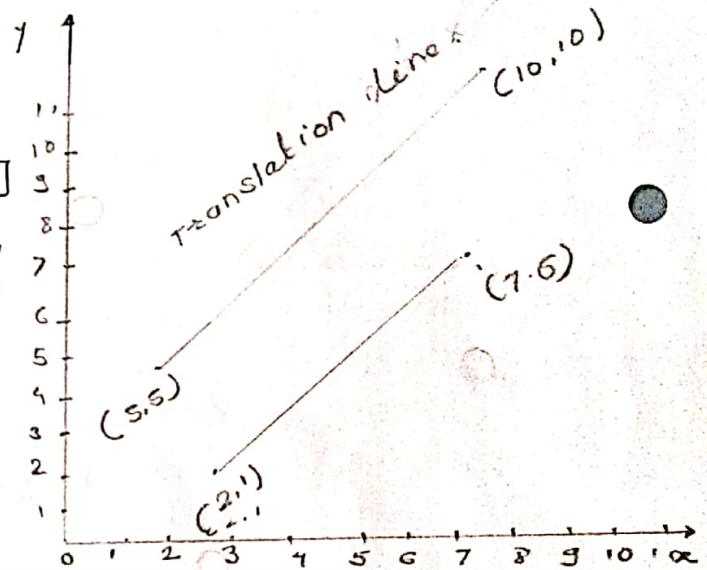
$$= \begin{bmatrix} 3 \\ 4 \end{bmatrix} + \begin{bmatrix} 2 \\ 1 \end{bmatrix}$$

$$P' = \begin{bmatrix} 5 \\ 5 \end{bmatrix}$$

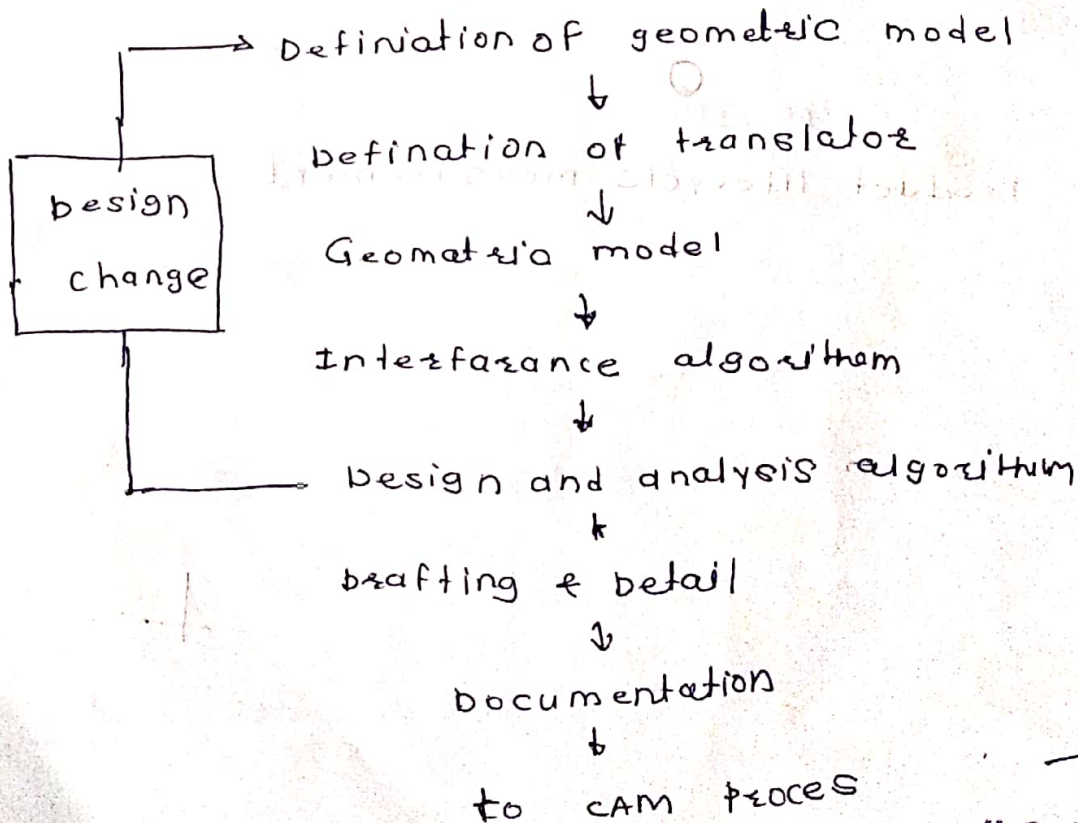
$$Q' = [T] + [Q]$$

$$= \begin{bmatrix} 3 \\ 4 \end{bmatrix} + \begin{bmatrix} 7 \\ 6 \end{bmatrix}$$

$$Q' = \begin{bmatrix} 10 \\ 10 \end{bmatrix}$$



2



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Santosh Kumar

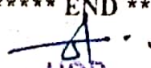
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	Sanjeevan Engineering & Technology Institute, Panhala	
	Department of Mechanical Engineering	
	CA-II	
	SEMESTER: VII	ACADEMIC YEAR: 2022-23
	NAME OF STUDENT:	ROLL NO.:
	CLASS: B. Tech. Final Year	MARKS: 10
	DAY & DATE : Monday, 19/12/2022	9.45 – 10.15 AM.
	SUBJECT: CAD/CAM (BTMEC702)	

INSTRUCTIONS:

1. All questions are compulsory.

Q. No.	Question	Marks	CO
Q. 1.	Tick mark the correct answer		
a.	In the following three-dimensional modelling techniques. Which do not require much computer time and memory? (a) Surface modelling (b) Solid modelling (c) Wireframe modelling (d) All of the above	1	4
b.	In the following geometric modelling techniques. which cannot be used for finite element analysis: (a) Wireframe modelling (b) Surface modelling (c) Solid modelling (d) none of the above	1	4
c.	In the following geometric primitives. which is not a solid entity of CSG modelling: (a) Box (b) Cone (c) Cylinder (d) Circle	1	4
d.	The number of lines required to represent a cube: in a wireframe model is: (a) 8 (b) 6 (c) 12 (d) 16	1	4
e.	The shape of the Bezier curve is controlled by: (a) Control points (b) Knots (c) End points (d) All the above	1	4
Q.2.	Que. Compare variant CAPP and Generative CAPP <i>Write answer at backside of paper</i>	2	6
Q.3.	Que. Draw any three layout of FMS <i>Write answer at backside of paper</i>	3	5

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	Sanjeevan Engineering & Technology Institute, Panhala	
	Department of Mechanical Engineering	
	CA-II	
	SEMESTER: VII	ACADEMIC YEAR: 2022-23
	NAME OF STUDENT: Patil Tejas Shamrao	ROLL NO.: 02
	CLASS: B. Tech. Final Year	MARKS: 10
	DAY & DATE : Monday, 19/12/2022	9.45 – 10.15 AM.
	SUBJECT: CAD/CAM (BTME702)	

INSTRUCTIONS:

1. All questions are compulsory.

Q. No.	Question	Marks	CO
Q. 1.	Tick mark the correct answer		
a.	In the following three-dimensional modelling techniques. Which do not require much computer time and memory? (a) Surface modelling (b) Solid modelling (c) Wireframe modelling (d) All of the above	1	4
b.	In the following geometric modelling techniques. which cannot be used for finite element analysis: (a) Wireframe modelling (b) Surface modelling (c) Solid modelling (d) none of the above	1	4
c.	In the following geometric primitives. which is not a solid entity of CSG modelling: (a) Box (b) Cone (c) Cylinder (d) Circle	1	
d.	The number of lines required to represent a cube: in a wireframe model is: (a) 8 (b) 6 (c) 12 (d) 16	1	4
e.	The shape of the Bezier curve is controlled by: (a) Control points (b) Knots (c) End points (d) All the above	1	
Q.2.	Que. Compare variant CAPP and Generative CAPP Write answer at backside of paper	2	6
Q.3.	Que. Draw any three layout of FMS Write answer at backside of paper	3	5

***** END *****

A.
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Q2.

Variant CAPP

- i] These is variant type system.
- ii] It require more man power.
- iii] It requires skilled type labourers.
- iv] It is consistent system.
- v]

2

Generative CAPP.

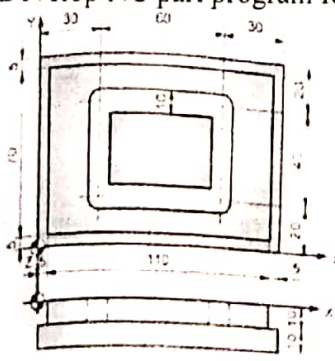
- ii] These is generative type CAPP system.
- ii] It requires less man power.
- iii] It require non-skilled labourers or skills are not required.
- iv] It is not-consistent system.


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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.	
	Sanjeevan Engineering & Technology Institute, Panhala.	
	Department of Mechanical Engineering	
	Mid Semester Examination 2022	
	SEMESTER: VII	ACADEMIC YEAR: 2022-23
	NAME OF STUDENT:	PRN.:
	CLASS: Final Year B. Tech.	Time : 3 TO 4PM
	DAY & DATE: Thursday, 10/11/2022	Marks: 20
	SUBJECT NAME WITH CODE: CAD/CAM BTMEC702	

Instructions to the Students:

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

Que. No.	Sub Que.	Question	CO	PO	BL	Marks
1.		Attempt the Following	4×1 = 4			
	a.	From the following which is not a graphics standard: (a) GKS (b) IGBS (c) UNIX (d) PHIGS	1	1	BL1	1
	b.	How would you Classify Geometrical modelling techniques	3	1	BL2	1
	c.	What approach would you use for Color raster display three electron guns	1	1	BL3	1
	d.	What is the theme behind working of raster scans	1	1	BL4	1
2.		Solve Any Two Of The Following	3 × 2 = 6			
	a.	Sketch the block diagram of CAM process on a CAD/CAM	1	1	BL3	3
	b.	Categorize neatly the analytical curves	2	2	BL4	3
	c.	How do you prove the parallelism and perpendicularity of lines	2	3	BL5	3
3		Solve Any two of the following	5 × 2 = 10			
	a.	The end points of line are A1(1,3,7) & A2 (-4,5-3). Evaluate Tangent vector, Length of line, Unit vector	2	3	BL5	5
	b.	A Triangle PQR with vertices P(20,20), Q(50,20), R(20,140) is to be enlarged twice along X-direction and compressed to half along Y-direction. Reframe the scaled triangle	1	3	BL5	5
	c.	Develop NC part program for the below shown component	3	3	BL6	5
						

***** END *****

Sanjeevan Engineering & Technology Institute
Panhala

Name of the Student : Patil Tejas Shamrao Mid Semester

Class : Btech Mechanical Roll No. : 2

Subject : CAD/CAM Date : 10/11/22

Language of Answer English

Question No.	1	2	3	4	5	6	7	8	9	10	Total	out of	Examiner's Sign.
Marks-obtained	4	3.3	5.5								20	20	<u>CC</u>

Main Answersheet + No. of Supplement = Total

01 + =

[Signature]
Supervisor's Signature

1

a. UNIX

b. ① surface Modelling

② solid Modelling

c. ③ wireframe modelling.

4

d.

e. Red, ~~white~~, Green, blue

d. scan left to right and top to bottom.

4
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Q2.

a. Below given is block diagram of CAM process on a CAD/CAM

Geometrical Modelling.

Interface Algorithm.

Process planning.

NC programs.

Inspection

Assembly

Packaging

To marketing

b. Below are categorized the analytic curves.

① Analytic curves are based on analytic equations.

② It represents simple mathematical form.

① Line : It basic entity in geometrical modelling.

② circle :- It based on cad cam in which value is stored in centre and radius of circle.

~~ellipse~~ :-

③ ellipse :- It based cad cam in which value is stored in centre and radius of circle.

④ parabola :- It is ~~a point~~ generated by a point which moves from a fix distance.

⑤ Hyperbola :- It is generated by a point moving position from a fix distance.

Q3.

a. ~~$x_1 = 1$~~ ~~$x_2 = 3$~~ ~~$x_3 = 7$~~

$x_1 = 1$ $y_1 = 3$ $z_1 = 7$

$x_2 = -4$ $y_2 = 5$ $z_2 = -3$

Here

$$x = x_1 + u(x_2 - x_1)$$

$$x = 1 + u(-4 - 1)$$

$$x = 1 - 5u$$

$$y = y_1 + u(y_2 - y_1)$$

$$= 3 + u(5 - 3)$$

$$y = 3 + 2u$$

$$z = z_1 + u(z_2 - z_1)$$

$$= 7 + u(-3 - 7)$$

$$= 7 + u(-10)$$

$$z = 7 - 10u$$

Now tangent vector.

$$P' = P_2 - P_1$$

$$P'(u) = [x'(u) \ y'(u) \ z'(u)]$$

$$= [x'(-5) \ y'(2) \ z'(-10)]$$

Tangent vector = $-5i + 2j - 10k$

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Mechanical Engineering

Sanjeevan Engg. & Tech. Institute, Pankaj

② Length of line.

$$L = |P_2 - P_1|$$

$$L = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$$

$$L = \sqrt{(-4 - 1)^2 + (5 - 3)^2 + (-3 - 7)^2}$$

~~11.3578~~

$$L = 11.3578$$

③ Unit Vector.

$$\hat{n} = \frac{P_2 - P_1}{L}$$

$$= \frac{-5i + 2j - 10k}{11.3578}$$

$$\hat{n} = -0.44i + 0.176j - 0.88k.$$

~~$\hat{n} = -0.44i + 0.176j - 0.88k$~~

$$= -0.44i + 0.176j - 0.88k$$

Q.3

C.

N1 ~~G17~~ G17
N2 G71
N3 G40
N4 G80
N5 G28
N6 G91 Z0
N7 ~~G92~~ G92
N8 G00
N9 G90 X00 Y0
N10 G43 Z0 M08 S500
N11 G01 Z-10 F0.2
N12 X60
N13 Y90
N14 X30
N15 Y20
N16 G00 Z00
N17 G28 U0 V0 W0
N18 G43 X0 Y0 Z0
N19 G80
N20 G49
N21 M09
N22 M02
N23. M30

ROD

Mechanical Engineering
Sanjeevan Engg. & Tech. Institute, Madurai

Academic Calendar for SY, TY & B.Tech Odd Semester (Academic Year - 2022-2023) Dept.CSE

Month	Week No.	Week Days							No. of working days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
Sep-22	1				1	2	3	4	2	Student Internship
	2	5	6	7	8	9	10	11	6	10 - Principal Address & Commencement Meeting (NBA)
	3	12	13	14	15	16	17	18	5	12 - Reporting to office & Commencement of Academics 12 to 17 - GTT Training 15 - Engineers Day Celebration, FY Bridge Course
	4	19	20	21	22	23	24	25	6	24 - Department Association Inauguration
	5	26	27	28	29	30			5	28 - Student Categorization(Week, Average, Bright) 29, 30 - CA I
Oct-22	6						1	2	0	02 - Mahatma Gandhi Jayanti
	7	3	4	5	6	7	8	9	5	05 - Dasara, 8 - Parents Teachers Meet, 9 - Id-E-Milad 8, 22, 29 - Dept. Level / NSS Activity, GATE Awareness Programme
	8	10	11	12	13	14	15	16	5	14 - Feedback from Students
	9	17	18	19	20	21	22	23	6	19 to 21 - MSE, 22 - Central NBA Review
	10	24	25	26	27	28	29	30	3	24 & 26 - Dipawali, 29 - Project Phase I Progress Report
	11	31							1	31 - Display of MSE Marks
Nov-22	12		1	2	3	4	5	6	4	1 to 8 - Exam Form Filling for Regular & Supplementary Examinations
	13	7	8	9	10	11	12	13	5	08 - Guru Nanak Jayanti 12, 26 - Dept. Level / NSS Activity, 12 - Central NBA Review
	14	14	15	16	17	18	19	20	5	9 to 15 - Exam form filling with Late fee, 17 to 19 - University Tech fest
	15	21	22	23	24	25	26	27	6	26 - Project Phase I Progress Presentation
	16	28	29	30					3	30 - Feedback from Students
Dec-22	17				1	2	3	4	2	1 & 2 - CA II
	18	5	6	7	8	9	10	11	6	10 - Department Level / NSS Activity & Parents Teachers Meet
	19	12	13	14	15	16	17	18	5	
	20	19	20	21	22	23	24	25	1	19 - End of Classes, 20 to 23 - Practical/project/ Seminar Examination, 25th Dec - Christmas Day, 22 to 24 - Uploading Internal & Practical marks
		26	27	28	29	30	31			
Jan-23								1		
		2	3	4	5	6	7	8		
		9	10	11	12	13	14	15		26th December 2022 to 21st January 2023 - End Semester Regular & Supplementary Examinations
		16	17	18	19	20	21	22		
		23	24	25	26	27	28	29		26th Jan - Republic Day, 28 - NBA Review- Dept. Presentation
Feb-23				1	2	3	4	5		1st February 2023 to 31st May 2023 - Academic Year 2022-23 Even Semester
		6	7	8	9	10	11	12		11 - NBA Review- Dept. Presentation
		13	14	15	16	17	18	19		
		20	21	22	23	24	25	26		21st February to 3rd March 2023 - Remedial Examinations
		27	28							

Total Working Days/110

81

Govt. Holiday	Activities	Internal/ Practical Exam	Holiday
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Prin
H.O.(CSE)

Department of Computer Science

& Engineering

Sanjeevan Engg. & Tech. Institute

Somwar Peth, Panhala - 416 201



Prin
Principal

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Principal

Sanjeevan Engg. & Tech. Institut

Somwar Peth, Panhala, Dist. Kolhapur. (M



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Academic Calendar Even Semester (Academic Year: 2022-2023)

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28						2	27 - Commencement of Semester VI & VIII
MARCH			1	2	3	4	5	3	
	6	7	8	9	10	11	12	5	07 - Dhulivandan
	13	14	15	16	17	18	19	5	13 - Commencement of Semester IV
	20	21	22	23	24	25	26	5	22 - Gudhi Padwa
	27	28	29	30	31			4	27-29 - CA-I For Sem VI & VIII, 30- Ram Navami
APRIL						1	2	0	
	3	4	5	6	7	8	9	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	10	11	12	13	14	15	16	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	17	18	19	20	21	22	23	5	19-21- MSE Sem VI & VIII, 22 - Ramzan-Id
	24	25	26	27	28	29	30	5	28- Parent Meet for Sem VI & VIII
MAY	1	2	3	4	5	6	7	3	01- Maharashtra Din, 02-03- CA-I For Sem II, 05- Buddha Pournima
	8	9	10	11	12	13	14	6	08-10- CA-II Exam Sem VI & VIII
	15	16	17	18	19	20	21	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester
	22	23	24	25	26	27	28	6	25-27 - Practical/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
	29	30	31					3	29 May- 02 June- MSE For Sem II
JUNE				1	2	3	4	2	29 May- 02 June- MSE For Sem II
	5	6	7	8	9	10	11	6	10- Parent Meet for Sem II
	12	13	14	15	16	17	18	5	12-23 ESE For Sem VI & VIII
	19	20	21	22	23	24	25	6	12-23 ESE For Sem VI & VIII
	26	27	28	29	30			4	28- Bakri Id, 29-30- CA-II For Sem II & IV
JULY						1	2	0	
	3	4	5	6	7	8	9	6	8- End of II & IV Semester
	10	11	12	13	14	15	16	5	09-10-Practical/Project/ Seminar Exam For Sem II & IV
	17	18	19	20	21	22	23	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	24	25	26	27	28	29	30		29- Moharum
	31								29 August- Result Declaration ESE For Sem II & IV
Govt. Holiday								105	17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V
Activities									

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

2. Each Department shall prepare their separate calendar to reflect departmental activities & Industrial Visits and Student Intership

Prepared by



PRINCIPAL

H.O.D.(CSE)

Sanjivan Engg. & Tech. Institute
Somwar Path, Panchala, Dist. Kolhapur, (M.S.)

Date:18/4/2023

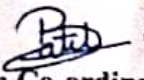
NOTICE

All the students of S.Y. B.Tech are here by inform that **CA-I** examination is scheduled from **26/4/23 to 27/4/2023**. The evaluation of CA-I is **5 Marks for attendance** and **5 marks for task**.

The time-table is given below :

CA-I Examination Schedule 2022

Date	Timing	S.Y. B.Tech
26/04/2023	9.:30 am to 10 am	Operating system (MCQ(Quiz)
	11.:30 am to 12 pm	Design Analysis & Algorithm (Theory Exam)
	2 pm to 3 pm	Probability & Statistics(Theory Exam)
27/04/2023	9.10 am to 11.30 am	Digital Logic and Microprocessor(Oral)
	11.30 am to 1.30pm	Basic Human Rights (Presentation)


Exam Co-ordinator


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




H.O.D.
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Department of Computer Science
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Sanjeevan Engg. & Tech. Instit
Somwar Peth, Panhala - 416

Date: 18/4/2023

NOTICE

All the students of **Third Year and Final Year B.Tech** are here by inform that **Mid Semester**

Examination (MSE) is scheduled from **24/4/23 to 25/4/2023**.

The time-table is given below:

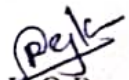
MSE Examination Schedule April 2023

Date	Timing	T.Y. B.Tech	Final Year B.Tech
24/04/2023	9.30 am to 10.30 am	Machine Learning	-----
	11.30 am to 12.30 pm	Computer Network	Deep Learning
	2 pm to 3 pm	Compiler Design	Cryptography and Network Security
25/04/2023	9.30 am to 10.30 am	Internet of Things	-----
	11.30 am to 12.30 pm	Consumer Behaviour	-----


Exam Co-ordinator




PRINCIPAL
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Somwar Peth, Panhala - 416 201


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Panhala - 416 201



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Date -13/10/2022

NOTICE

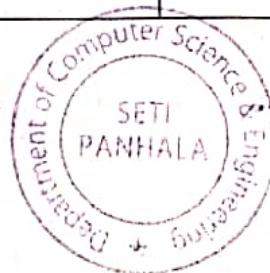
All the students of CSE department are hereby inform that the **CA-I** is scheduled from **17/10 /2022 to 18/10/2022**. The time table for exam is given below:

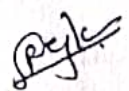
CA-I Schedule (2022)

Date	Time	Final-Year B. Tech	TY B. Tech	SY B. Tech
17/10 /2022	10 am-10.30 am	Software Engineering	Database Systems	Engineering Mathematics-III
17/10 /2022	12 am-12.30pm	-----	Theory of Computation	Discrete Mathematics
17/10 /2022	3pm -3.30 pm	Distributed System	Software Engineering	Data structures
18/10 /2022	10 am-10.30 am	Computer Graphics	Numerical Methods	Computer Architecture & organization
18/10 /2022	2.30 pm – 3 pm	Cloud Computing	Business Communication	Object oriented programming in java


Exam Coordinator


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Somwar Peth, Panhala - 416 201

Date: 22/4/2023

NOTICE

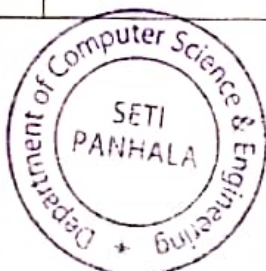
All the students of **Third Year and Final Year B.Tech** are here by inform that **Mid Semester Examination (MSE)** is scheduled from **24/4/23 to 25/4/2023**.

The time-table is given below:

MSE Examination Schedule April 2023

Date	Timing	T.Y. B.Tech	Final Year B.Tech
24/04/2023	11.00 am to 12.00 pm	Machine Learning	-----
	01.00 pm to 02.00 pm	Computer Network	Deep Learning
	03.00 pm to 04.00 pm	Compiler Design	Cryptography and Network Security
25/04/2023	9.30 am to 10.30 am	Internet of Things	-----
	11.30 am to 12.30 pm	Consumer Behaviour	-----


Exam Co-ordinator




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


H.O.D.

Date: 20/6/2023

NOTICE

All the students of S.Y. B.Tech are hereby inform that CA-II examination is scheduled on **23/6/23**.

The evaluation of CA-II is **5 Marks for attendance** and **5 marks for task**. The time-table is given below:

CA-II Examination Schedule 2023

Date	Timing	Subject
23/6/23	9.10 am to 9.40 am	Operating System
	10 am to 10.30 am	DAA
	11.15 am to 11.45 am	BHR
	12 pm to 12.30 pm	DLDM
	2 pm to 3 pm	P & S


Exam Co-ordinator




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


H.O.D.

***** END *****

DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
Sanjeevan Engineering & Technology Institute, Panhala.

Department of Computer Science and Engineering
CA-I Semester Examination 2022-23

CLASS: S.Y. B. Tech.
DATE: 26/04/2023

Time: 30 min

SUBJECT NAME WITH CODE: Design Analysis & Algorithm

Question No.	Question	Marks
1	What is An Algorithm? Why we used it. Give the properties of good algorithm	5
2	Explain any one of an asymptotic notation with neat Diagram (Graph)?	5
3	Explain briefly four techniques used for designing algorithm?	5



***** END *****


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Somwar Peth, Panhala - 416 201


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



	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.	
	Sanjeevan Engineering & Technology Institute, Panhala.	
	Department of Computer Science and Engineering	
	Mid Semester Examination 2022- 2023	
	SEMESTER: IV	ACADEMIC YEAR: 2022-23
	CLASS: S.Y.	Time :
	DAY & DATE: 31/5/2023	Marks: 20
	SUBJECT NAME WITH CODE: BTHM403, Basic Human Rights	

Instructions to the Students:

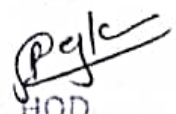
1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator is allowed

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following	4×1 =4			
	a.	A right denotes what we are entitled to as----- -----, as individuals and as human beings. a) Citizens b) Leaders c) Politeness d) Students	03	03	BL1	1
	b.	Culture is ----- all the while. a) Static b) Colourful c) Man-made d) Dynamic	02	03	BL2	1
	c.	Social behavior , a subset of a) Nature b) Society c) Human-behaviour d) Culture	02	03	BL3	1
	d.	Identify factor of poverty a) Idleness b) Salary c) Infrastructure d) Higher Wages	05	08	BL4	1
2.		Solve Any Two Of The Following	3 ×2 = 6			
	a.	How would you develop a group & define its Characteristics?	04	09	BL3	3
	b.	What is the most important sector of Civil society? Why?	04	09	BL4	3
	c.	Predict the outcome if the Equality does not exist.	01	06	BL5	3
3		Solve Any two of the following	5 ×2 = 10			
	a.	How would you determine the causes of communalism in India?	04	09	BL5	5
	b.	What's your opinion about American bill of Rights?	01	06	BL5	5
	c.	How would you portray characteristics of Human rights?	03	03	BL6	5

***** END *****




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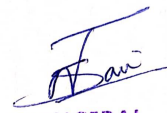
	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE	
	Sanjeevan Engineering & Technology Institute, Panhala	
	Department of Computer Science & Engineering	
	CA-II (May 2023)	
	CLASS: Final Year B.Tech	SEM: - VIII ACADEMIC YEAR : 2022-23
	NAME OF STUDENT:	
	ROLL No.	PRN No.
	MARKS OBTAINED:	MARKS: 10
	DATE : 27/05/2023	
	SUBJECT: CRYPTOGRAPHY AND NETWORK SECURITY	
		Supervisor Sign

INSTRUCTIONS:

- 1) All questions are compulsory.
- 2) Each question carries 1 mark.
- 3) Multiple Tick Marks are not allowed

Q.No	Questions	Correct Option
1	When data must arrive at receiver exactly as they were sent, its called a) Message Confidentiality b) Message Integrity c) Message Splashing d) Message Sending b	
2	Caesar Cipher is an example of a) Poly-alphabetic Cipher b) Mono-alphabetic Cipher c) Multi-alphabetic Cipher d) Bi-alphabetic Cipher b	
3	Mono-alphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former. a) True b) False b	
4	The full form of SSL is a) Serial Session Layer b) Secure Socket Layer c) Session Secure Layer d) Series Socket Layer b	
5	Which protocol is used to convey SSL related alerts to the peer entity? a) Alert Protocol b) Handshake Protocol c) Upper-Layer Protocol d) Change Cipher Spec Protocol a	
6	The RSA signature uses which hash algorithm? a) MD5 b) SHA-1 c) MD5 and SHA-1 d) None of the mentioned c	
7	URL stands for – a) Universal Remote Locator b) Universal Resource Language c) Uniform Resource Locator d) Uniform Resource Language c	
8	MACs are also called a) testword b) checkword c) testbits d) none of the mentioned d	
9	MAC is a a) one-to-one mapping b) many-to-one mapping c) onto mapping d) none of the mentioned b	
10	HTTPS stands for Hypertext Transfer Protocol over TLS a) True b) False a	



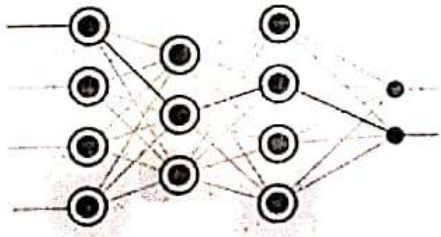

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	Sanjeevan Engineering & Technology Institute, Panhala		
	Department of Computer Science & Engineering		
	CA-I (March 2023)		
	CLASS: Final Year B.Tech	SEM: - VIII	ACADEMIC YEAR : 2022-23
	NAME OF STUDENT: <u>Kamble Shweta Shahaji</u>		
	ROLL No. <u>09</u>	PRN No. <u>2069151242003</u>	
	MARKS OBTAINED: <u>9/10</u>	MARKS: 10	
	DATE : 29/03/2023		
	SUBJECT: Deep Learning BTCE0801 (A)		
			 Supervisor Sign

INSTRUCTIONS:

- 1) All questions are compulsory.
- 2) Each question carries 1 mark.
- 3) Multiple Tick Marks are not allowed

Q.No	Questions	Correct Option
1	What is full form of ANNs? a) Artificial Neural Node b) AI Neural Networks c) Artificial Neural Networks d) Artificial Neural numbers	C
2	Deep learning is not a part of Artificial Intelligence (True / False) a) True b) May be True c) False d) Can't say	C
3	 In this ANN how many hidden layers are present? a) 4 b) 3 c) 2 d) 5	C
4	What are the limitations of ML? a) Huge amount of data b) Complex Problems c) Feature Extraction d) All of these	d
5	What is the full form of CNN? a) Common Neural Network b) Communication Neural Network c) Convolutional Neural Network d) Compact Neural Network	C
6	What is the full form of RNN? a) Randomize Neural Network b) Reunion Neural Network	C

	c) Recurrent Neural Network d) Redirected Neural Network	
7	Feature extraction is the limitation of Machine Learning . (True OR False) a) True b) May be True c) False d) Both a&c	b
8	Object Identification is the one of the complex problem (True OR False) a) True b) May be True c) False d) Both a&c	a
9	Algorithm of Artificial Neural Network a) Feedforword b) Backprapogation c) Both a& b d) None	c
10	In which layer of ANN actual computations are performed ? a) Input Layer b) Hidden Layer c) Output Layer d)Data Link Layer	b



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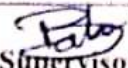
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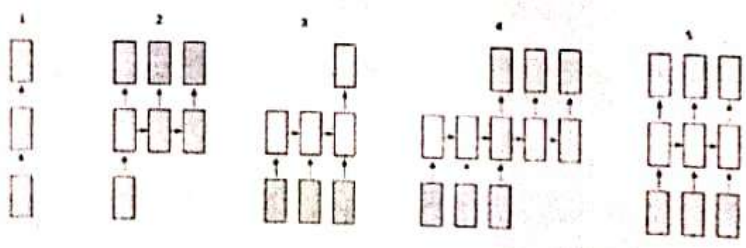
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10 70

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	Sanjeevan Engineering & Technology Institute, Panhala	
	Department of Computer Science & Engineering	
	C A-II (May 2023)	
	CLASS: Final Year B.Tech	SEM: - VIII ACADEMIC YEAR: 2022-23
	NAME OF STUDENT: Shivani Shashikant Shinde	
	ROLL No. 04	PRN No. 2063151242023
	MARKS OBTAINED: 10/10	MARKS: 10
	DATE: 27/05/2023	
	SUBJECT: Deep Learning BTCOE801 (A)	
 Supervisor Sign		

INSTRUCTIONS:

- 1) All questions are compulsory.
- 2) Each question carries 1 mark except question no.7 carries 4 Marks.
- 3) Write the correct option in the box given at the end of each question for Q.No.7 Solve it properly
- 4) Multiple choices are not allowed

Q.No	Questions	Correct Option
1	What does RNN Stand for a)Recurrent Neural Network b) Recurring Neural Network c)Removable Neural Network d) None of above	a
2	Full form of LSTM a) Long Standard-Term Memory b)Local Short-Term Memory c)Long Short-Terminal Memory d)Long Short-Term Memory	d
3	For what RNN is used and achieve the best results? a) Images recognition b) Handwriting and speech recognition c) Handwriting and images recognition d) Financial predictions	b
4	 According to the image, classify the type of RNN connection we have in the example 1. a) Many to many b)One to many c)Many to one d)One to one	d

5. According to the image, classify the type of connection we have in the example 3 in above image

- a) Many to many b) Many to one c) One to one d) One to many

✓ b

6. What is 'gradient' when we are talking about RNN?

- a) A parameter that can help you improve the algorithm's accuracy
b) The most important step of RNN algorithm
c) A gradient is a partial derivative with respect to its inputs
d) It is how RNN calls it's features

✓ c

7. The Flatten Layer is used for-----.

- a) Converting 2D data into 1D Array b) Pooling
c) convolution d) Filtering

✓ a

8. In CNN if the input image is 11×11 of size and if we apply filter of 3×3 size, stride value = 2, then what is the size of feature map matrix(output matrix)?

- a) 11×11 b) 9×9 c) 3×3 d) 5×5

✓ d

9. If we apply max pooling on given feature map, if stride = 2, max pooling by 2×2 the what will be the output

2	2	7	3
9	4	6	1
8	5	2	4
3	1	2	6


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apply max pooling, stride=2 a) 2 2 b) 7 3 c) 9 7 d) 8 6

9 4 6 1 8 6 9 7

✓ c

10. The _____ is a pooling operation that selects the maximum element from the region of the feature map covered by the filter.

- a) Max Pooling b) Average Pooling c) Global pooling d) None of these

✓ d





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

Name of the Student : Sutar Akanksha Vinod Sutar

Class : TYBTech

Roll No. : 58

Subject : Compiler Design - MSE

Date : 24-04-2023

Language of Answer English

Question No.	1	2	3	4	5	6	7	8	9	10	Total	out of	Examiner's Sign.
Marks obtained	1	1	1	1	3	3		5		3	18	20	

Main Answersheet + No. of Supplement = Total

01

+

=

Supervisor's Signature

e-1

a) ~~c) Lexical analysis, syntax, analysis & code generation~~

b) ~~a) Source program, tokens~~

c) ~~b) Syntax Analysis~~

d) ~~a) Source Program~~

que - 1

b)

Single Pass Compiler

Multi pass compiler

① It reads data once and translates its

① It reads the data in multiple times & it converts it into numerical forms.

② It is faster

② It is slower as compare to single pass compiler

③ less efficient to code optimization and generation

③ More efficient to code optimization & generation

④ It is a narrow compiler

④ It is wide compiler

⑤ It require large memory

⑤ It require less memory

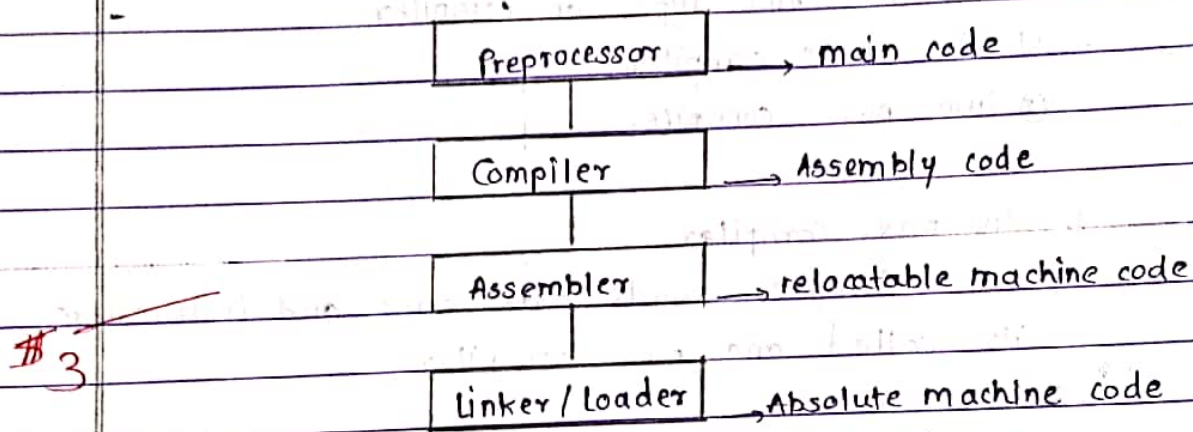
⑥ eg - Pascal
c language

⑥ eg - Module-2 language

a) Compiler

- It is a program in which compiles high or translates high level language (C, C++, Java) into low level language (Binary format or

- Compiler compiles the human readable code into the machine understandable code without changing the meaning of the program.



- Preprocessor scan the code and take the main code of the program and hide the header file of the program.

- Compiler take the main code of the program as an input and to produce or translate its into assembly code.

- Assembler take the assembly code from the compiler as input and to convert it into relocatable machine code.

- Linker/loader takes the relocatable machine code and it converts it into absolute machine code and it loads in a main memory.

source code → Compiler → Machine code

- Compiler also find the errors of the program.
- Compiler ^{compiles large} produces less amount of ~~code~~ in less amount of time.
- It supports to the highlevel language.

There are two types of compiler

① One pass compiler

② Two pass compiler

① One pass compiler

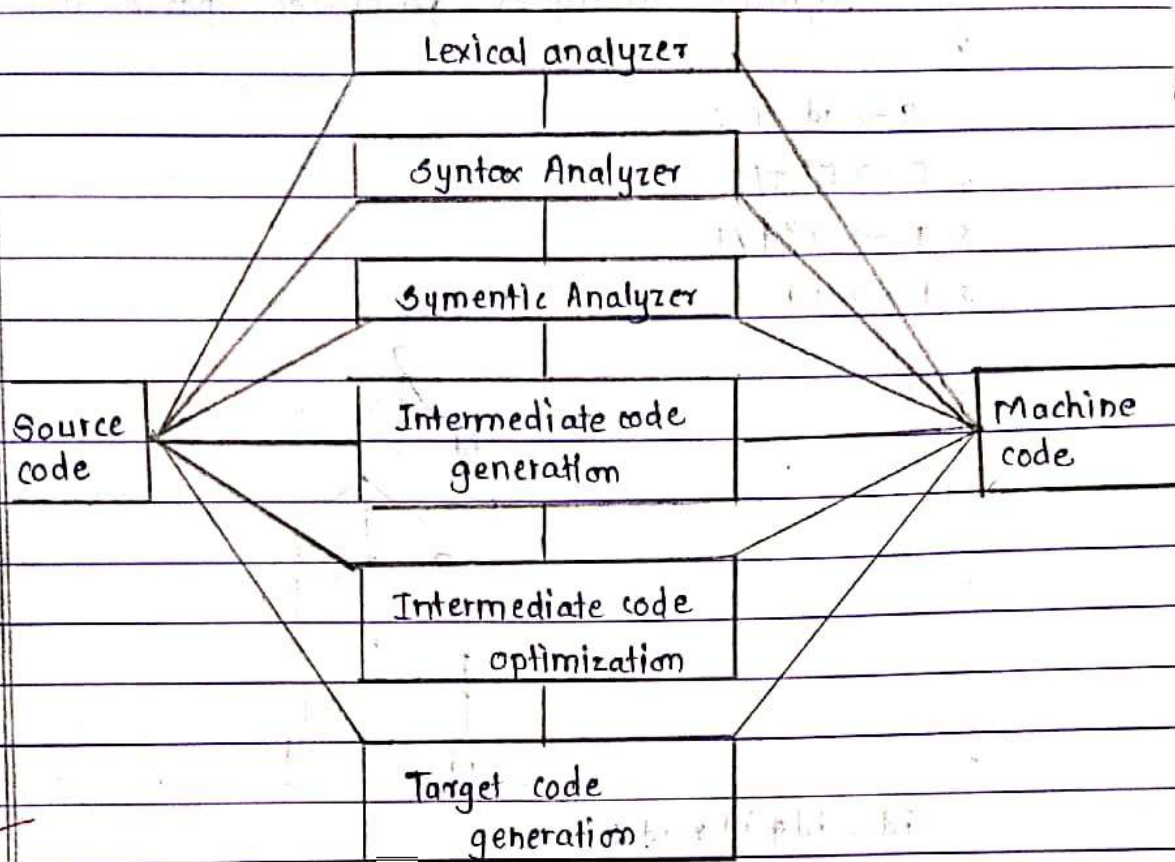
Compiler reads code once and it translate its called one pass compiler

② Two pass compiler

Compiler reads code multiple ~~ty~~times and converts it into numerical forms called two pass compiler

12-3

a)



There are six phases of compiler

i) lexical analyzer

lexical analyzer scan the code and it generates lexemes and tokens.

eg. $x = a + b * c;$

lexemes

tokens

x

Identifier

$=$

Operator

a

Identifier

$+$

Operator

b

Identifier

$*$

Operator

c

Identifier

$;$

Operator

2) Syntax analyzer.

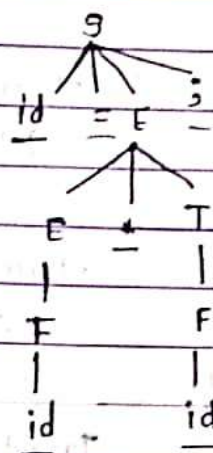
Syntax analyzer generates parse tree

$S \rightarrow id = E ;$

$E \rightarrow E * T / T$

$E \rightarrow T * F / F$

$F \rightarrow id$



$id = id * id ;$

3) Symentic Analyzer

Symentic Analyzer can check the ~~tree~~ rules of the compiler check the wide spaces or any comments

4) Intermediate Code generation.

Intermediate code generator to generate the Tree address code.

Intermediate
code

Tree address
code

$id = id + id * id ;$

↓↑

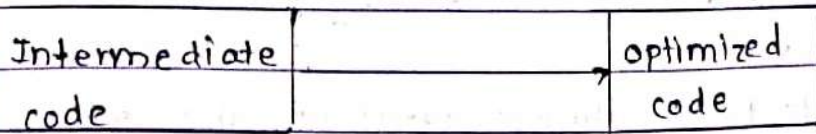
$x = a + b * c ;$

$T_0 = b * c ;$

$T_1 = a + T_0 ;$

$T_2 = T_1$

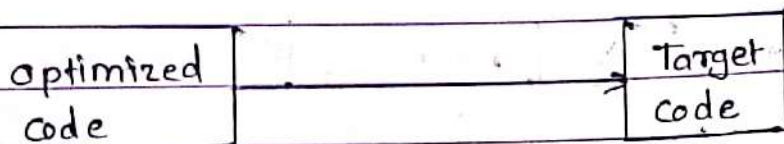
5) Intermediate code optimization.



→ $T_0 = b * c;$

$x = a + T_0;$

6) Target code generation



Target code generator generates the code in the assembly language.

c)

- lex tool is a tool which is convert the lexical analyzer
- lex tool is always generates the set of tokens

lex.l ————— lex compiler ————— lex.yy.c

lex.yy.c ————— ccompiler ————— a.out

I/P string ————— a.out ————— Set of tokens.

3

- lex file is converted into lex.yy.c
- i.e. file with the help of lexical analyzer
- lex.yy.c is converted into a.out
- lex.yy.c is always naming a.out file
- Then Input string is converted into the set of tokens.

{Declaration} Declaration Variable

% %

{Translator, rule} Auxiliary File

% %



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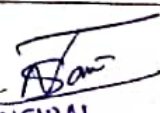
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	Sanjeevan Engineering & Technology Institute, Panhala			
	Department of Computer Science & Engineering			
	CA-I (March 2023)			
	CLASS: Final Year B.Tech		SEM: - VIII	ACADEMIC YEAR : 2022-23
	NAME OF STUDENT:			
	ROLL No.		PRN No.	
	MARKS OBTAINED:			MARKS: 10
	DATE : 29/03/2023			
	SUBJECT: Deep Learning BTCOE801 (A)			
Supervisor Sign				

INSTRUCTIONS:

- 1) All questions are compulsory.
- 2) Each question carries 1 mark.
- 3) Multiple Tick Marks are not allowed

Q.No	Questions	Correct Option
1	What is full form of ANNs? a) Artificial Neural Node b) AI Neural Networks <u>c) Artificial Neural Networks</u> d) Artificial Neural numbers	C
2	Deep learning is not a part of Artificial Intelligence (True / False) a) True b) May be True c) False d) Can't say	C
3	 In this ANN how many hidden layers are present? a) 4 b) 3 <u>c) 2</u> d) 5	C
4	What are the limitations of ML? a) Huge amount of data b) Complex Problems c) Feature Extraction <u>d) All of these</u>	d
5	What is the full form of CNN? a) Common Neural Network b) Communication Neural Network <u>c) Convolutional Neural Network</u> d) Compact Neural Network	c
6	What is the full form of RNN? a) Randomize Neural Network b) Reunion Neural Network c) Recurrent Neural Network d) Recursive Neural Network	c


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	c) <u>Recurrent Neural Network</u> d) Redirected Neural Network	
7	Feature extraction is the limitation of Machine Learning . (True OR False) a) <u>True</u> b) May be True c) False d) Both a&c	Q
8	Object Identification is the one of the complex problem (True OR False) a) <u>True</u> b) May be True c) False d) Both a&c	a
9	Algorithm of Artificial Neural Network a) Feedforward b) Backpropagation c) <u>Both a& b</u> d) None	c
10	In which layer of ANN actual computations are performed ? a) Input Layer b) <u>Hidden Layer</u> c) Output Layer d) Data Link Layer	b

S.A. Babar

S.A. Babar

Sob-Incharge



S. A. Babar

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Somwar Peth, Panhala, Dist. Kolhapur - 415 201

S. A. Babar

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Model Answer Sheet Mid-Sem-Exam

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Sanjeevan Engineering & Technology Institute, Panhala

Department of Computer Science & Engineering

Model Answer Sheet with Evaluation Schema Mid Semester Examination – April 2023

Course: B. Tech In Computer Science & Engineering

Sem: VIII

Class: Final Year B.Tech

Subject Name: Deep Learning

Subject Code: BTCOE801 (A)

Max Marks: 20

Date: 24/04/2023

Duration:- 1.0 Hr.

Instructions to the Students:

1. All Questions are compulsory.

2. Solve any two from Q.2, Solve any one from Q.3 & Solve any one from Q.4

Q.1. Solve the multiple choice questions.
Correct Options

6M

- i) c
- ii) d
- iii) d
- iv) a
- v) c
- vi) d

Q.2 Solve Any Two of the following.

(3 Marks for Each Question)

A) Write a short note on Autoencoders in Deep Learning.

Definition: Autoencoders are self-supervised machine learning models which are used to reduce the size of input data by recreating it. These models are trained as supervised machine learning models and during inference, they work as unsupervised models that's why they are called self-supervised models. Autoencoder is made up of two components:

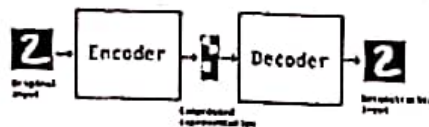
1 Marks

1. Encoder: It works as a compression unit that compresses the input data.

2. Decoder: It decompresses the compressed input by reconstructing it.

Diagram & Explanation

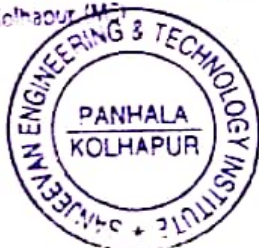
2 Marks



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B) What is the use of Activation function? Explain any 4 activation function used in Deep Learning.

Activation Function Definition:

1 Marks

Any 4 Activation function

2 Marks

1. Linear Activation Function

2. Step function

3. Sigmoid function

4. Tanh

5. ReLU

6. Leaky ReLU

7. Softmax function

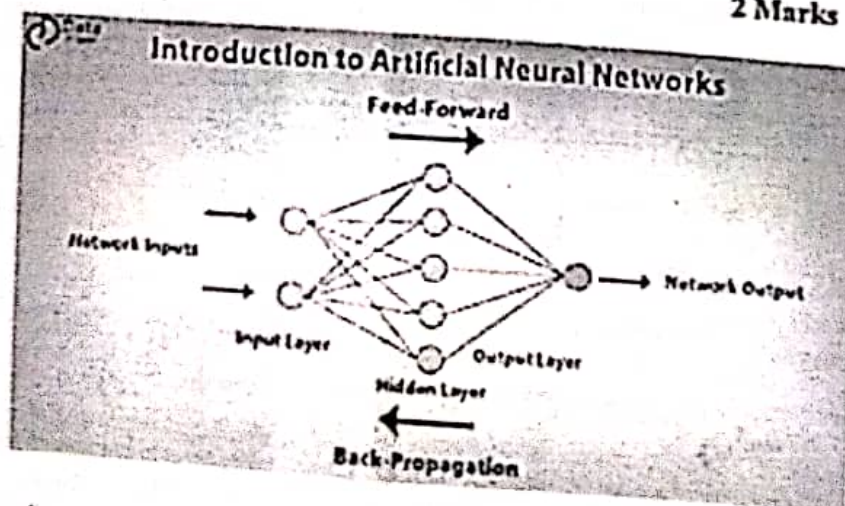
C) Explain ANN with diagram.

ANN Layered network diagram

1 Marks

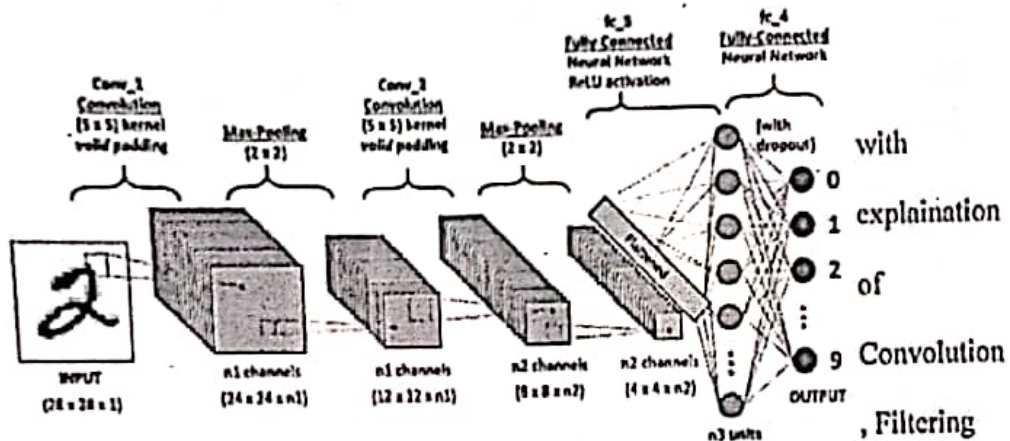
Explanation of Three layers: Input Layer, Hidden Layer, Output Layer with Bias & weights

2 Marks



D) Explain CNN- Convolution layer with example.

CNN Architecture diagram



-and Pooling & Classification

3 Marks

- To reduce size of image which will be easy to process without losing important features
- Extracting the important features from the given input image with the help of filters
- Filters with different size are applied on the given input data to scan the image pixel by pixel
- Pooling is used to reduce the feature map without losing important features

Q.3 Solve Any One of the following.

8 Marks

A) Consider the given dataset , apply Baye's Algorithm & predict that if a fruit has the following properties , then which type of fruit it is?

Fruit = { Yellow, Sweet , Long }

Fruit	Yellow	Sweet	Long
Mango	350	450	0
Banana	400	300	350
Other	50	100	50

Total
~~600~~ 800
 1000
 200
 2000

Conditional Probability $P(A|B) = \frac{P(B|A) * P(A)}{P(B)}$ — 1 mark

$X = \{ \text{Yellow, Sweet, long} \}$

$P(X | \text{Mango}) =$

$P(X | \text{Banana}) =$

$P(X | \text{Other}) =$

B) For the given dataset apply Baye's Theorem & predict the outcome for a car if,
car = { Red, Domestic, SUV }

Color	Type	Origin	Stolen(Yes/No)
Red	Sports	Domestic	YES
Red	Sports	Domestic	NO
Red	Sports	Domestic	YES
Yellow	Sports	Domestic	NO
Yellow	Sports	Imported	YES
Yellow	SUV	Imported	NO
Yellow	SUV	Imported	YES
Yellow	SUV	Domestic	NO
Red	SUV	Imported	NO
Red	Sports	Imported	YES

Conditional probability $P(A|B) = \frac{P(B|A) \times P(A)}{P(B)}$

$X = \{ \text{Red, Domestic, SUV} \}$

— 1 Mark.

$$1) P(\text{Red} | \text{Yes}) = \frac{P(\text{Yes} | \text{Red}) \times P(\text{Red})}{P(\text{Yes})} = \frac{3}{5}$$

$$P(X | \text{Yes}) = 0.024$$

$$2) P(\text{Domestic} | \text{Yes}) = \frac{P(\text{Dom} | \text{Yes}) \times P(\text{Dom})}{P(\text{Yes})} = \frac{2}{5}$$

— 3 Marks

$$3) P(\text{SUV} | \text{Yes}) = \frac{P(\text{Yes} | \text{SUV}) \times P(\text{SUV})}{P(\text{Yes})} = \frac{1}{5}$$

$$P(X | \text{Yes}) = \frac{3}{5} \times \frac{2}{5} \times \frac{1}{5} = \frac{6}{125} = 0.024$$

$$1) P(\text{Red} | \text{No}) = \frac{P(\text{No} | \text{Red}) \times P(\text{Red})}{P(\text{No})} = \frac{2}{5}$$

$$\therefore P(X | \text{No}) = 0.072$$

$$2) P(\text{Domestic} | \text{No}) = \frac{P(\text{No} | \text{Dom}) \times P(\text{Dom})}{P(\text{No})} = \frac{3}{5}$$

$$3) P(\text{SUV} | \text{No}) = \frac{P(\text{No} | \text{SUV}) \times P(\text{SUV})}{P(\text{No})} = \frac{2}{5}$$

— 3 Marks

So max value for probability $P(X | \text{No}) = 0.072$. So this type of car classified as not stolen car.

— 1 Mark for
Conclusion.

C) Explain the details of CNN with diagram and with example in matrix .Take Input Matrix of a image and calculate feature map apply max pooling.

CNN diagram

2 Marks

Convolution Process with example matrix of input image

2 Marks

$$\begin{array}{|c|c|c|c|c|} \hline 1 & 1 & 1 & 0 & 0 \\ \hline 0 & 1 & 1 & 1 & 0 \\ \hline 0 & 0 & 1 & 1 & 1 \\ \hline 0 & 0 & 1 & 1 & 0 \\ \hline 0 & 1 & 1 & 0 & 0 \\ \hline \end{array} * \begin{array}{|c|c|c|} \hline 1 & 0 & 1 \\ \hline 0 & 1 & 0 \\ \hline 1 & 0 & 1 \\ \hline \end{array}$$

5×5 - Image Matrix 3×3 - Filter Matrix

Filtering process with example

2 Marks

Stride value, filter size

$$\begin{array}{|c|c|c|c|c|} \hline 1 & 1 & 1 & 0 & 0 \\ \hline 0 & 1 & 1 & 1 & 0 \\ \hline 0 & 0 & 1 & 1 & 1 \\ \hline 0 & 0 & 1 & 1 & 0 \\ \hline 0 & 1 & 1 & 0 & 0 \\ \hline \end{array} \quad \begin{array}{|c|c|c|} \hline 4 & 3 & 4 \\ \hline & & \\ \hline & & \\ \hline \end{array}$$

Image Convolved Feature

Pooling process with Max pooling & Average Pooling

2 Marks

2 2 7 3 If we apply max pooling on given feature map , if stride=2 , max pooling by 2×2
 9 4 6 1
 8 5 2 4 then it becomes
 3 1 2 6

9	7
8	6

Average Pooling:

If we apply average pooling on given feature map , if stride=2 , max pooling by 2×2

2 2 7 3
 9 4 6 1
 8 5 2 4
 3 1 2 6

Average pooling matrix is =

4.25	4.25
4.25	3.5

$$\begin{aligned}
 \text{III] } P(\text{Yellow} | \text{other}) &= \frac{P(\text{other} | \text{Sweet}) \cdot P(\text{Sweet})}{P(\text{other})} \\
 &= \frac{100/800 \cdot 800/2000}{200/2000} \\
 &= \frac{1}{4} \\
 &= 0.5
 \end{aligned}$$

$$\begin{aligned}
 P(\text{Long} | \text{other}) &= \frac{P(\text{other} | \text{Long}) \cdot P(\text{Long})}{P(\text{other})} \\
 &= \frac{100/400 \cdot 400/2000}{200/2000} \\
 &= \frac{1}{4} \\
 &= 0.25
 \end{aligned}$$

$$\begin{aligned}
 P(X | \text{other}) &= 0.25 \times 0.5 \times 0.25 \\
 &= 0.03125
 \end{aligned}$$

Mango = 0

Banana = 0.0362 = max. value

Others = 0.0312

$$\begin{aligned}
 P(\text{Sweet} | \text{other}) &= \frac{P(\text{other} | \text{Yellow}) \cdot P(\text{Yellow})}{P(\text{other})} \\
 P(\text{Yellow} | \text{other}) &= \frac{50/800 \cdot 800/2000}{200/2000} \\
 &= \frac{1}{4} \\
 &= 0.25
 \end{aligned}$$

$$\begin{aligned}
 \therefore P(\text{Yellow} | \text{mango}) &= \frac{P(\text{mango} | \text{Yellow}) \cdot P(\text{Yellow})}{P(\text{mango})} \\
 &= \frac{850/800 \cdot 800/2050}{800/2050} \\
 &= 7/16 \\
 &= 0.4375.
 \end{aligned}$$

$$\begin{aligned}
 P(\text{Sweet} | \text{mango}) &= \frac{P(\text{mango} | \text{Sweet}) \cdot P(\text{Sweet})}{P(\text{mango})} \\
 &= \frac{450/800 \cdot 800/2050}{800/2050} \\
 &= \frac{9}{16} \\
 &= 0.5625
 \end{aligned}$$

$$P(\text{Long} | \text{mango}) = 0$$

$$\begin{aligned}
 \text{II) } P(\text{Yellow} | \text{Banana}) &= \frac{P(\text{Banana} | \text{Yellow}) \cdot P(\text{Yellow})}{P(\text{Banana})} \\
 &= \frac{400/800 \cdot 800/2050}{1050/2050} \\
 &= 8/21 \\
 &= 0.3809
 \end{aligned}$$

$$\begin{aligned}
 P(\text{Sweet} | \text{Banana}) &= \frac{P(\text{Banana} | \text{Sweet}) \cdot P(\text{Sweet})}{P(\text{Banana})} = \frac{300/800 \cdot 800/2050}{1050/2050} \\
 &= \frac{300/400 \cdot 400/2050}{1050/2050} \\
 &= \frac{1/3}{2/7} = 0.2857 \\
 &= 0.333
 \end{aligned}$$

$$P(\text{Long} | \text{Banana}) = 0.333$$

$$\begin{aligned}
 P(\text{X} | \text{Banana}) &= 0.3809 \cdot 0.2857 \cdot 0.333 \\
 &= 0.0362
 \end{aligned}$$

$$P(\text{Yellow} | \text{Mango}) = \frac{P(\text{Mango} | \text{Yellow}) \times P(\text{Yellow})}{P(\text{Mango})}$$

$$= \frac{350/100 \times 800/2050}{650/2050} = \frac{350}{650} = 0.53$$

3 Marks.

$$2) P(\text{Sweet} | \text{Mango}) = 0.69$$

$$3) P(\text{Other long} | \text{Mango}) = 0.$$

$$P(X | \text{Mango}) = 0.53 \times 0.69 \times 0 = 0.$$

for Banana.

$$1) P(\text{Yellow} | \text{Banana}) = \frac{P(\text{Banana} | \text{Yellow}) \times P(\text{Yellow})}{P(\text{Banana})} = 1$$

$$2) P(\text{Sweet} | \text{Banana}) = \frac{P(\text{Banana} | \text{Sweet}) \times P(\text{Banana} | \text{Sweet})}{P(\text{Banana})} = 0.75$$

$$3) P(\text{long} | \text{Banana}) = \frac{P(\text{Banana} | \text{long}) \times P(\text{long})}{P(\text{Banana})} = 0.875$$

$$P(X | \text{Banana}) = 1 \times 0.75 \times 0.875 = 0.65$$

for others

$$1) P(\text{Yellow} | \text{other}) = 0.33$$

$$2) P(\text{Sweet} | \text{other}) = 0.66$$

$$3) P(\text{long} | \text{other}) = 0.33$$

3 Marks.

$$\therefore P(X | \text{others}) = 0.33 \times 0.66 \times 0.33 = 0.072$$

So we have

$$P(X | \text{mango}) = 0.$$

$$P(X | \text{Banana}) = 0.65 \text{ — max. value of probability}$$

$$P(X | \text{others}) = 0.072$$

So given set of data belongs to Banana class 1-mark

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Dept. Conclusion
SHED
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& Engineering
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Somwar Peth, Panhala - 41

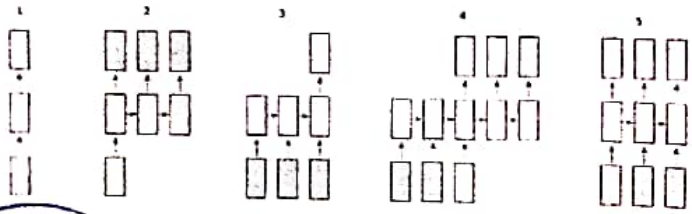
Model Answer sheet CA-II

70

	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.		
	Sanjeevan Engineering & Technology Institute, Panhala		
	Department of Computer Science & Engineering		
	CA-II (May 2023)		
	CLASS: Final Year B.Tech	SEM: - VIII	ACADEMIC YEAR : 2022-23
	NAME OF STUDENT:		
	ROLL No.	PRN No.	
	MARKS OBTAINED:		MARKS: 10
	DATE : 27/05/2023		
	SUBJECT: Deep Learning BTCOE801 (A)		
			Supervisor Sign

INSTRUCTIONS:

- 1) All questions are compulsory.
- 2) Each question carries 1 mark except question no.7 carries 4 Marks.
- 3) Write the correct option in the box given at the end of each question for Q.No.7 Solve it properly
- 4) Multiple choices are not allowed

Q.No	Questions	Correct Option
1	What does RNN Stand for ☒ a) Recurrent Neural Network b) Recurring Neural Network c) Removable Neural Network d) None of above	a
2	Full form of LSTM a) Long Standard-Term Memory b) Local Short-Term Memory c) Long Short-Terminal Memory ☒ d) Long Short-Term Memory	d
3	For what RNN is used and achieve the best results? a) Images recognition ☒ b) Handwriting and speech recognition c) Handwriting and images recognition d) Financial predictions	b
4	 According to the image, classify the type of RNN connection we have in the image. a) Many to many b) One to many c) Many to many d) One to many	d



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5

According to the image, classify the type of connection we have in the example 1 in above image

a) Many to many b) Many to one c) One to one d) One to many

b

6

What is 'gradient' when we are talking about RNN?

a) A parameter that can help you improve the algorithm's accuracy

b) The most important step of RNN algorithm

c) A gradient is a partial derivative with respect to its inputs

d) It is how RNN calls it's features

c

7

The Flatten layer is used for-----.

a) converting 2D data into 1D Array b) Pooling

c) convolution d) Filtering

a

8

In CNN if the input image is 11×11 of size and if we apply filter of 3×3 size, stride value 2, then what is the size of feature map matrix(output matrix)?

a) 11×11

b) 9×9

c) 3×3

d) 5×5

d

9

If we apply max pooling on given feature map, if stride 2, max pooling by 2×2 the what will be the output

2	2	7	3
9	4	6	1
8	5	2	4
3	1	2	6

apply max pooling, stride=2 a) 2 2 b) 7 3 c) 9 7 d) 8 6

9 4 6 1 8 6 9 7

c

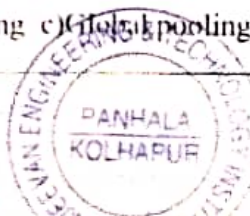
10

The Max Pooling operation that selects the maximum element from the region of the feature map covered by the filter.

a) Max Pooling b) Average Pooling c) Global Pooling d) None of these

a

S.A. Bobar sub-Incharge.



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Academic Calendar for FY SEMESTER I Odd Semester (Academic Year - 2022-2023)

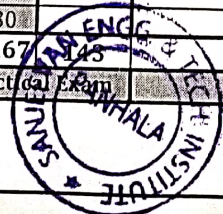
EN 6315

Month	Week No.	Week Days							No. of working days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
Sep-22	1				1	2	3	4	2	Student Internship
	2	5	6	7	8	9	10	11	6	10 - Principal Address & Commencement Meeting (NBA)
	3	12	13	14	15	16	17	18	5	12 - Reporting to office & Commencement of Academics 12 to 17 - GTT Training
	4	19	20	21	22	23	24	25	6	15 - Engineers Day Celebration, FY Bridge Course
	5	26	27	28	29	30			5	24 - Department Association Inauguration
Oct-22	6						1	2	0	28 - Student Categorization(Week, Avarage, Bright) 29, 30 - CA I
	7	3	4	5	6	7	8	9	5	02 - Mahatma Gandhi Jayanti
	8	10	11	12	13	14	15	16	5	05 - Dasara, 8 - Parents Teachers Meet, 9 - Id-E-Milad
	9	17	18	19	20	21	22	23	6	8, 22, 29 - Dept. Level / NSS Activity, GATE Awareness Programme
	10	24	25	26	27	28	29	30	4	14 - Feedback from Students
	11	31							1	19 to 21 - MSE, 22 - Central NBA Review
Nov-22	12		1	2	3	4	5	6	4	24 & 26 - Dipawali, 29 - Project Phase I Progress Report
	13	7	8	9	10	11	12	13	5	31 - Display of MSE Marks
	14	14	15	16	17	18	19	20	5	1 to 8 - Exam Form Filling for Regular & Supplementary Examinations, 4 Nov. to 19 Nov - Induction Programme of 1st year.
	15	21	22	23	24	25	26	27	6	08 - Guru Nanak Jayanti
	16	28	29	30					3	12, 26 - Dept. Level / NSS Activity, 12 - Central NBA Review
Dec-22	17				1	2	3	4	2	9 to 15 - Exam form filling with Late fee, 17 to 19 - University Tech fest
	18	5	6	7	8	9	10	11	6	21 Nov. - Commencement of 1st year classes, 26 - Project Phase I Progress Presentation
	19	12	13	14	15	16	17	18	5	30 - Feedback from Students
	20	19	20	21	22	23	24	25	6	1 & 2 - CA II
	21	26	27	28	29	30	31		6	10 - Department Level / NSS Activity & Parents Teachers Meet
Jan-23	22							1		19 - End of Classes, 20 to 23 - Practical/project/ Seminar Examination, 25th Dec - Christmas Day, 22 to 24 - Uploading Internal & Practical marks
	23	2	3	4	5	6	7	8	5	26 Dec-Feedback from students
	24	9	10	11	12	13	14	15	6	
	25	16	17	18	19	20	21	22	6	9 Jan - Mid semester Exam of 1st year.
	26	23	24	25	26	27	28	29	5	19 Jan - Guest Lecture for 1st year, 26th December 2022 to 21st January 2023 - End Semester Regular & Supplementary Examinations
Feb-23	27	30	31						2	26th Jan - Republic Day, 28 - NBA Review- Dept. Presentation
	28			1	2	3	4	5	3	1st February 2023 to 31st May 2023 - Academic Year 2022-23 Even Semester
	29	6	7	8	9	10	11	12	6	11 - NBA Review- Dept. Presentation
	30	13	14	15	16	17	18	19	5	
	31	20	21	22	23	24	25	26	6	21st February to 3rd March 2023 - Remedial Examinations
Mar-23	32	27	28						2	
	33			1	2	3	4	5	3	
	34	6	7	8	9	10	11	12	1	6 March- End of Classes of 1st year, 7 to 9 March- Practical exam of 1st year
	35	13	14	15	16	17	18	19		
	36	20	21	22	23	24	25	26		21 TO 24 March -Uploading Internal And Practical Marks.
Apr-23	37	27	28	29	30	31				27 March to 5 April - ESE exam
	38						1	2		
	39	3	4	5	6	7	8	9		
	40	10	11	12	13	14	15	16		10 April- Commencement of Even Semester for 1st year.
	41	17	18	19	20	21	22	23		
	42	24	25	26	27	28	29	30		

Total Working Days/167

Govt. Holiday Activities Internal/Practical Exam

Prepared by
Prof. Khn Na.G.



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Holiday

Sanjeevan Engg. & Tech. Institute

Somwar Peth, Panhala - 416 201

Department of
Basic Sciences and Humanities

DTE Code : ENG315


 NAAC Accredited
 AICTE ID : 1-8019451
 AISHE Code : C-11163

 HOLY-WOOD ACADEMY'S
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 ENGINEERING & TECHNOLOGY INSTITUTE, PANCHALA
 Sanjeevan Knowledge City, Somwar Peth-Jajale, Panchala, Tal. Panchala, Dist. Kolhapur.
 Pin- 416 201 (Maharashtra) Phone : 9146999500

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Vision- SETI to educate to excel in social transformation
Department of Basic Sciences & Humanities
Academic Calendar Even Semester (Academic Year: 2022-2023)

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28						2	27 - Commencement of Semester VI & VIII
MARCH			1	2	3	4	5	3	
	6	7	8	9	10	11	12	5	07 - Dhulivandan
	13	14	15	16	17	18	19	5	13 - Commencement of Semester IV
	20	21	22	23	24	25	26	5	22 - Gudhi Padwa
	27	28	29	30	31			4	27-29 - CA-I For Sem VI & VIII, 30- Ram Navami
APRIL						1	2	0	
	3	4	5	6	7	8	9	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	10	11	12	13	14	15	16	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	17	18	19	20	21	22	23	5	19-21- MSE Sem VI & VIII, 22 - Ramzan-Id
	24	25	26	27	28	29	30	5	28- Parent Meet for Sem VI & VIII
MAY	1	2	3	4	5	6	7	3	01- Maharashtra Din, 04 May- CA-I For Sem II, 05- Buddha Pournima
	8	9	10	11	12	13	14	6	08-10- CA-II Exam Sem VI & VIII
	15	16	17	18	19	20	21	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester
	22	23	24	25	26	27	28	6	25-27 - Practical/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
	29	30	31					3	
JUNE				1	2	3	4	2	
	5	6	7	8	9	10	11	6	10- Parent Meet for Sem II
	12	13	14	15	16	17	18	5	12 June- 13 June MSE for sem II
	19	20	21	22	23	24	25	6	ESE For Sem II
	26	27	28	29	30			4	28- Bakri Id, 26 June- CA-II For Sem II
JULY						1	2	0	
	3	4	5	6	7	8	9	6	8- End of II & IV Semester
	10	11	12	13	14	15	16	5	09-10-Practical/Project/ Seminar Exam For Sem II & IV
	17	18	19	20	21	22	23	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	24	25	26	27	28	29	30		29- Moharum 25/26 Conduct Practical exam
	31								29 August- Result Declaration ESE For Sem II & IV
Govt. Holiday								105	17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V
Activities									

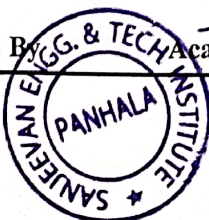
Note: 1. The above dates are subject to change as per the guidelines of regulating authorities.

2. Each Department shall prepare their separate calendar to reflect departmental activities & Industrial Visits and Student Internship

Prepared By: Academic Dean

Vice Principal

Principal


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

DTE Code : **EN6315**



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

HOLY-WOOD ACADEMY'S

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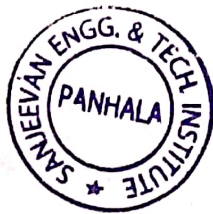
Date: 25/04/2023

NOTICE

All students of 1st year engineering (F.E) are informed that the **continuous assessment-1(CA-1)** is scheduled on **4th may 2023**.
The time table for the same will be displayed soon.

NOTE:

1. Students have to clear all the remaining fees before CA-1 exam.
2. Exam should not re-conduct at any cost.



P. S. J.

HOD

H. O. D.

Department of
Basic Sciences and Humanities

A. S. J.

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DTE Code : **ENG315**



NAAC Accredited

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

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Pin- 416 201 (Maharashtra) Phone : 9146999509

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Date: 25/04/2023

TIME TABLE (CA-1)

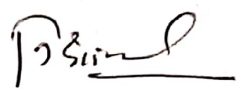
(MCQ mode)

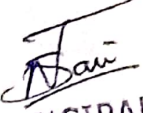
F. Y. B.Tech SEM-I

A.Y. 2022-23.

Sr. No.	Date	Time	Subject	
			Div A & B	Div C & D
1	04/05/2023	10:00 to 10:30	Engg. Chemistry	Engg. Maths- II
		11:00 to 11:30	Engg. Maths- II	Engg. Physics
		12:00 to 12:30	CPC	Communication skills
		02:00 to 02:30	Engg. Mechanics	EEE
		03:00 to 03:30	-----	Engg. Graphics


Exam Co-ordinator


HOD


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Somwar Peth, Panhala - 416 201



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Department of
Basic Sciences and Humanities



Seat No.					
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**HOLY-WOOD ACADEMY's
SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE
B. Tech-I (First Year Engineering) 2022-23**

**CONTINUOUS ASSESMENT TEST-I
Question Paper with Model Answer**

Day & Date: Thursday, 4th May, 2023

Time: 12:00 to 12:30

Subject & Code: Communication Skills (BTHM104)

Marks: 10

- 1) Name of The Student :
2) Enrollment No :
3) Roll No :

Signature of Student

Signature of Supervisor

Signature of Examiner

Q. 1 Write an appropriate option in the bracket to complete the following sentences (10)

1. The word '*communis / communicare*' has been derived from _____ language

- a) German **b) Latin** c) Spanish d) Greek

2. What does the sign / / represent?

- a) Phonetic transcription** b) Centralization c) Voiced bilabial nasal
d) Rising- falling pitch

3. In the context of communication skills, what is the meaning of acronym K.I.S.S _____

- a) Keep in silent slot b) keep it small and simple c) kill it small and short **d) keep it short and simple**

4. Which of these is the third element of communication?

- a) Sender **b) Channel** c) Message d) Receiver

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Somwar Peth, Panhala - 416 201



5. _____ is the person who notices and decodes and attaches some meaning to a message.

- a) Receiver b) Driver c) Sender d) Cleaner

6. Which of these terms refer to the scientific study of speech process?

- a) Phonology b) Phonetic substances c) Phonetics d) Semantics

7. What is the full form of IPA?

- a) Indian Phonetic Alphabet b) International Phonetic Alphabet
c) International Phonetic Agreement d) Indian Phonetic Agreement

8. When a message is expressed using gestures or signs, it is _____

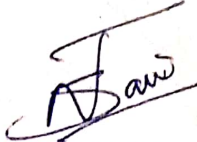
- a) Verbal b) Non-verbal c) Feedback d) Grapevine

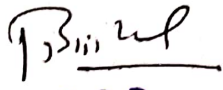
9. _____ refers to all these factors that disrupt the communication.

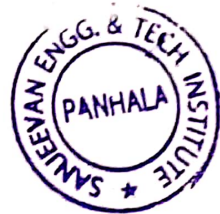
- a) Nonsense Interference b) Noise c) Context d)

10. Communication is a part of _____ skills.

- a) Soft b) Hard c) Rough d) Short


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Seat No.			8	0	1
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HOLY-WOOD ACADEMY'S

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE
B.Tech-I (First Year Engineering) 2022-23

CONTINUOUS ASSESMENT TEST-I

Day & Date: Thursday, 4th May, 2023

Time: 12:00 to 12:30

Subject & Code: Communication Skills (BTHM104)

Marks: 10

- 1) Name of The Student : Bojoge Apeksha Ananda
2) Enrollment No :
3) Roll No : 301

Signature of Student

Signature of Supervisor

Signature of Examiner

Q. 1 Write an appropriate option in the bracket to complete the following sentences

(10)

1. The word 'communis / communicate' has been derived from _____ language

b]

a) German

b) Latin

c) Spanish

d) Greek

2. What does the sign / / represent?

- a) Phonetic transcription b) Centralization c) Voiced bilabial nasal
d) Rising- falling pitch

a]

3. In the context of communication skills, what is the meaning of acronym K.I.S.S. _____

d]

- a) Keep in silent slot b) keep it small and simple c) kill it small and short d) keep it short and simple

4. Which of these is the third element of communication?

b]

- a) Sender b) Channel c) Message d) Receiver

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5. _____ is the person who notices and decodes and attaches some meaning to a message.

a] ✓

- a) Receiver b) Driver c) Sender d) Cleaner

6. Which of these terms refer to the scientific study of speech process?

c] ✓

- a) Phonology b) Phonetic substances c) Phonetics d) Semantics

7. What is the full form of IPA?

- a) Indian Phonetic Alphabet b) International Phonetic Alphabet
c) International Phonetic Agreement d) Indian Phonetic Agreement

b] ✓

8. When a message is expressed using gestures or signs, it is _____

b] ✓

- a) Verbal b) Non-verbal c) Feedback d) Grapevine

9. _____ refers to all these factors that disrupt the communication.

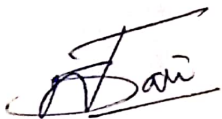
d] ✗

- a) Nonsense b) Noise c) Context d) Interference

10. Communication is a part of _____ skills.

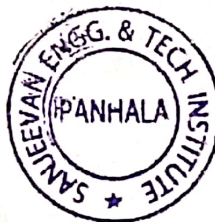
a] ✓

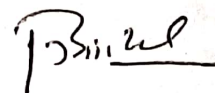
- a) Soft b) Hard c) Rough d) Short



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Department of
Basic Sciences and Humanities

DTE Code : **EN6315**



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AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
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ENGINEERING & TECHNOLOGY INSTITUTE, PANCHALA

Sanjeevan Knowledge City, Somwar Peth, Injole, Panchala, Tal. Panchala, Dist. Kolhapur.
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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

Date: 24/06/2023

NOTICE

All students and faculties of 1st year engineering (F.E) are hereby informed it is decided to take **continuous assessment-II (CA-II)** in the form of assignment. All faculties are requested to give assignment to students in class before **26/06/2023**.

Sr. No.	Faculty name	Sign	Sr. No.	Faculty name	Sign
1	Sameena Sayyad.	S.A. Sayyad	05	Khan Nasrin G.	[Signature]
02.	Dhananjay V. Patil	[Signature]			
03.	Patil Pradip Ramesh	[Signature]			
04	Khan Nilofar G	[Signature]			

Exam Co-ordinator

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& TECHNOLOGY INSTITUTE

DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.

Sanjeevan Engineering & Technology Institute, Panhala

Department of Basic Sciences and Humanity

Continuous Assessment - II

SEMESTER: II

ACADEMIC YEAR: 2022-23

CLASS: F.Y.B.Tech

MARKS: 10

DAY & DATE : 25 -06-2023

SUBJECT: Engg. Chemistry

Write the following on assignment page :

(5 Marks each).

Q.no: 01 Explain the properties of Good fuel.

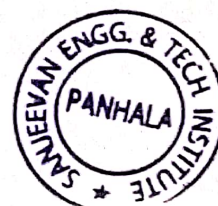
Q.no: 02 Explain types of Coal.

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Q1 Explain Properties of good fuel ?

1] High Calorific value :-

- Amount of heat liberated by complete combustion of unit mass of fuel is called calorific value.
- Bomb calorimeter is used to measure calorific value of solid, non volatile liquid fuel.
- Boys calorimeter is used to measure calorific value of volatile liquid, gaseous fuel.

2] Low Relative cost :-

- Good fuel should be easily available in market in low relative cost.

3] Moderate ignition temperature :-

- Lowest temperature at which fuel starts to ignite is called as ignition temperature.
- If ignition point is low it catches fire easily.
- If ignition point is high it difficult to catch fire/ignite.
- Good fuel should have moderate ignition temp.

4] Low Moisture content :-

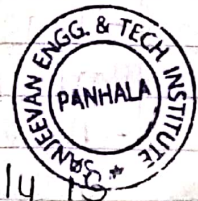
- As the moisture content increase calorific value decreases because some part of produced heat is utilized to evaporate moisture.

5] Low non-combustible matter :-

- As non-combustible matter increases calorific value decreases so good fuel should have low non-combustible matter.

6] Moderate velocity of Combustion :-

- The rate at which fuel burns continuously is called as velocity of combustion.
- If velocity is low wastage of time takes place.



- If velocity is high then there is wastage of fuel takes place.

7] Products of combustion should be not harmful :-

- The products of combustion are smoke carbon dioxide and carbon monoxide which causes air pollution.
- A good fuel is that which produces less harmful gases.

8] Easy to storage and transport :-

Good fuel is that which require less space for storage and easy to transport from one place to another place.

9] Combustion should be controllable :-

Good fuel is that for which combustion should be controllable and stop when we want.

10] Uniform size :-

It is applicable solid fuel size should be uniform to control combustion and easy to store and transport.

Q.2 Explain types of coal.

→ - Coal is organic sedimentary rock obtained by accumulation and preservation of plant material.

- Main constituents of coal are carbon, hydrogen, nitrogen, oxygen.

- It is obtained by coalification of wood.

Wood $\xrightarrow{\text{coalification}}$ coal

- Classification of coal is based on percentage of carbon present in it.

- A composition of wood is 50% carbon, 6% H, 0.5% N, 43.5% O

and calorific value is 4000 to kcal/kg.

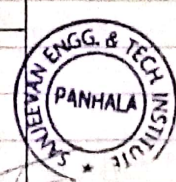
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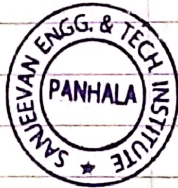
8

Sl No	Types of Coal	Description and Use	Composition	Calorific Value	Occurrence
1]	Peat	Brown and fibrous in nature contains 80-90% water. Burns with smoking flame. obtained by accumulation and preserving used in some industries.	C = 57% H = 5.5% N = 2% O = 35.5%	4500-5400 kcal / kg	Nilgiri area/Hills
2]	Lignite	Brown and soft in nature. contains 20-60% Moisture burns with smoky flame. used for manufacturing of produced gas.	C = 67% H = 5.5% N = 1.5% O = 26%	6500-7000 kcal / kg	found in Assam Madras/ chennai and Rajasthan
3]	Bituminous	It can be classified into three types.			
I]	Sub-bituminous	Black in colour, smooth and homogeneous	C = 77% H = 5% N = 1.8% O = 16.2%	7000-7500 kcal / kg.	Bihar, MP, Odisha
II]	bituminous	Black and blended in nature used as a coal for domestic and industrial application.	C = 83% H = 5% N = 2% O = 10%	8000-8500 kcal / kg	
III]	Semi-bituminous	Black in colour and used for coke formation.	C = 90% H = 4.5% N = 1.5% O = 4%	8500-8600 kcal / kg	



4]	Anthracite	Black and hard in nature burns without smoky flame. used in domestic and industrial application	C = 93.3% H = 3% N = 0.7% O = 3%	8600 - 8700 Kcal/ kg	Kashmir and Himalay
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S.A. Sayalad.



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P. B. Bhal

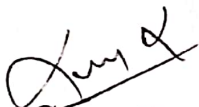
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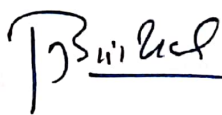
Date- 05/01/2023

NOTICE

All the Students of 1st year Engineering(F.E) are informed that the
Mid SEM examination is scheduled between 12th Jan, 2023 to 13th
Jan 2023. The time table for the same will be displayed soon.


Exam Co-ordinator


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Date: 5/1/2023

Time -table

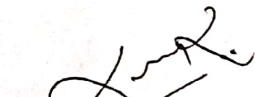
MID-SEM exam

F.Y. B.Tech Sem -I

A.Y. 2022-23

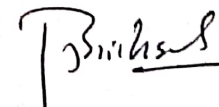
Sr No.	Date	Time	Subject	
			Div A&B	Div C&D
1	12/01/2023	10:00 am to 11:00am	Engg. Maths-I (BTBS101)	Engg. Mechanics (BTES103)
		2.30 pm to 3.30pm	Engg. Physics (BTBS102P)	Engg. Chemistry (BTBS102)
2	13/01/2023	10:00 am to 11:00am	Comm. skills (BTHM104)	Computer programming in C (BTES104)
		12.30pm to 1.30 pm	EEE (BTES105)	Engg. Maths-I (BTBS101)
		2.30 pm to 3.50pm	Engg. Graphics BTBS103G	-----

NOTE- The time allotted for Engg. Graphics paper is 1.20 hrs

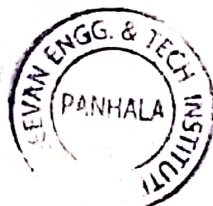

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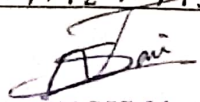


	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.	
	Sanjeevan Engineering & Technology Institute, Panhala.	
	Department of Basic Sciences & Humanities	
	Mid Semester Examination 2022	
	SEMESTER: I	ACADEMIC YEAR: 2022-23
	NAME OF STUDENT:	PRN:
	CLASS: First Year B. Tech.(DIV A AND B)	Time:10.00 AM TO 11.00 AM
	DAY & DATE: THURSDAY 12 / 01 / 2023	Marks: 20
	SUBJECT NAME WITH CODE: ENGINEERING MATHEMATICS – I(BTBSC101)	

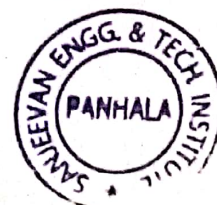
Instructions to the Students:

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

Que stion No.	Sub Questi on	Question	CO	PO	BL	Mark
1.		Attempt the Following $6 \times 1 = 06$				
	a.	If $u = x^y$ then $\frac{\partial u}{\partial x}$ is a) $x^y \log x$ b) yx^{y-1} c) x^y d) None	01	2	1,2,3	1
	b.	If Normal form of a given matrix is $\begin{bmatrix} I_r & 0 \\ 0 & 0 \end{bmatrix}$ then rank of matrix is.... a) 0 b) 2 c) r d) 1	01	1	1	1
	c.	If $u = x^3 + y^3$, then $\frac{\partial u}{\partial x \partial y}$ is equal to a) 0 b) 3 c) -3 d) 2	01	2	1,2,3	1
	d.	The given homogeneous system of equations has inconsistent solution if a) Rank of A = rank of [A,B] b) Rank of A = 0 c) Rank of A $\neq$ rank of [A,B] d) None	01	1	1	1
	e.	The product of eigen values for matrix A $= \begin{bmatrix} 1 & 0 & 0 \\ -5 & 2 & 0 \\ 7 & 2 & 5 \end{bmatrix}$ is a) 10 b) 11 c) 0 d) -35	01	1	1,2,3	1
	f.	If $\gamma_1, \gamma_2, \gamma_3$ are eigen values of A then eigen values of A^3 are..... a) $\gamma_1, \gamma_2, \gamma_3$ b) $\gamma_1^3, \gamma_2^3, \gamma_3^3$ c) $1/\gamma_1^3, 1/\gamma_2^3, 1/\gamma_3^3$ d) None	01	1	1	1

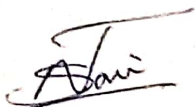

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2.	Solve Any Two Of The Following 3 × 2 = 06			
a.	Find A^{-1} by using Cayley Hamilton's Theorem for the matrix $A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}$	03	1	1,2,3 3
b.	Find Eigen values and Eigen vectors for $B = \begin{bmatrix} 4 & 6 & 6 \\ 1 & 3 & 2 \\ -1 & -4 & -3 \end{bmatrix}$	03	1	1,2,3 3
c.	Evaluate $\frac{\partial z}{\partial x}, \frac{\partial z}{\partial y}$ for $z = \tan^{-1}\left(\frac{x^2+y^2}{x+y}\right)$	03	2	1,2,3 3
3	Solve Any two of the following 4 × 2 = 08			
a.	Test the consistency and solve $4x - 2y + 6z = 8, x + y - 3z = -1, 15x - 3y + 9z = 21$	04	1	1,2,3 4
b.	If $u = \log(x^3 + y^3 + z^3 - 3xyz)$ then prove that $\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z}\right)^2 \cdot u = \frac{-9}{(x+y+z)^2}$	04	2	1,2,3 4
c.	If $x^x y^y z^z = c$ then prove that at $x = y = z$ $\frac{\partial^2 z}{\partial x \partial y} = -(x \cdot \log x)^{-1}$	04	2	1,2,3 4

***** END *****



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Engg. Mathematics.
MSE Sem-I (Model Answer).

No. 1)

a) d) None

b) c) ∞

c) b) 3

d) c) Rank of (A) $\neq$ rank of $[A:B]$

e) a) 10.

f) b) y_1^3, y_2^3, y_3^3



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Q. 2]

$$a) \quad A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}$$

We have, $\lambda^3 - S_1\lambda^2 + S_2\lambda - |A| = 0 \quad \text{--- (1)}$

$$S_1 = 6$$

$$S_2 = \begin{vmatrix} 2 & -1 \\ -1 & 2 \end{vmatrix} + \begin{vmatrix} 2 & 1 \\ 1 & 2 \end{vmatrix} + \begin{vmatrix} 2 & -1 \\ -1 & 2 \end{vmatrix}$$

$$S_2 = (4-1) + (4-1) + (4-1)$$

$$S_2 = 9$$

$$|A| = 2 \begin{vmatrix} 2 & -1 \\ -1 & 2 \end{vmatrix} + 1 \begin{vmatrix} -1 & -1 \\ 1 & 2 \end{vmatrix} + 1 \begin{vmatrix} -1 & 2 \\ 1 & -1 \end{vmatrix}$$

$$= 2(4-1) + 1(-2+1) + 1(1-2)$$

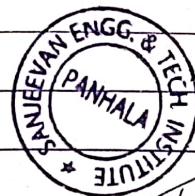
$$= 2(3) + 1(-1) + 1(-1)$$

$$= 6 - 1 - 1$$

$$|A| = 4$$

$\therefore$ eqⁿ (1) becomes,

$$\lambda^3 - 6\lambda^2 + 9\lambda - 4 = 0$$



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Put $\lambda = A$ & $4 = 4I$

$$\therefore A^3 - 6A^2 + 9A - 4I = 0 \quad \text{--- (2)}$$

Multiply by A^{-1} on both sides of eqⁿ (2)

$$A^{-1}(A^3 - 6A^2 + 9A - 4I) = 0 \times A^{-1}$$

$$A^2 - 6A + 9I - 4A^{-1} = 0$$

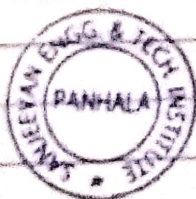
$$A^2 - 6A + 9I = 4A^{-1}$$

$$A^{-1} = \frac{1}{4}(A^2 - 6A + 9I)$$

$$A^2 = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix} \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}$$

$$= \begin{bmatrix} 6 & -5 & 5 \\ -5 & 6 & -5 \\ 5 & -5 & 6 \end{bmatrix}$$

$$A^{-1} = \frac{1}{4} \left(\begin{bmatrix} 6 & -5 & 5 \\ -5 & 6 & -5 \\ 5 & -5 & 6 \end{bmatrix} - 6 \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix} + 9 \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \right)$$



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$$A^{-1} = \frac{1}{4} \begin{bmatrix} 3 & 1 & -1 \\ 1 & 3 & 1 \\ -1 & 1 & 3 \end{bmatrix}$$

$$\cancel{A^{-1}} \neq \cancel{A}$$

$$A^{-1} = \begin{bmatrix} 3/4 & 1/4 & -1/4 \\ 1/4 & 3/4 & 1/4 \\ -1/4 & 1/4 & 3/4 \end{bmatrix}$$

$$b) \quad B = \begin{bmatrix} 4 & 6 & 6 \\ 1 & 3 & 2 \\ -1 & -4 & -3 \end{bmatrix}$$

We have, $\lambda^3 - S_1\lambda^2 + S_2\lambda - |A| = 0 \quad \text{--- (1)}$

$$S_1 = 4 + 3 - 3$$

$$S_1 = 4$$

$$S_2 = \begin{vmatrix} 3 & 2 \\ -4 & -3 \end{vmatrix} + \begin{vmatrix} 4 & 6 \\ -1 & -3 \end{vmatrix} + \begin{vmatrix} 4 & 6 \\ 1 & 3 \end{vmatrix}$$

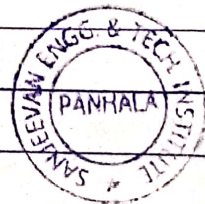
$$= (-9 + 8) + (-12 + 6) + (12 - 6)$$

$$= (-1) - 6 + 6$$

$$S_2 = -1$$

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$$|A| = 4 \begin{vmatrix} 3 & 2 \\ -4 & -3 \end{vmatrix} - 6 \begin{vmatrix} 1 & 2 \\ -1 & -3 \end{vmatrix} + 6 \begin{vmatrix} 1 & 3 \\ -1 & -4 \end{vmatrix}$$

$$|A| = 4(-9+8) - 6(-3+2) + 5(-4+3)$$

$$= 4(-1) - 6(-1) + 5(-1)$$

$$= -4 + 6 - 5$$

$$= -4 + 12 - 5$$

$$|A| = 8 \quad |A| = -4$$

Eqⁿ ① become,

$$\lambda^3 - 4\lambda^2 + (-1)\lambda + 8 = 0$$

$$\lambda^3 - 4\lambda^2 - \lambda + 8 = 0$$

$$\lambda = -1, 1, 4 \leftarrow \text{By using synthetic method}$$

We know, $[A - \lambda I]X = 0$

$$\begin{bmatrix} 4-\lambda & 6 & 6 \\ 1 & 3-\lambda & 2 \\ -1 & -4 & -3-\lambda \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \quad \text{--- ②}$$

Put $\lambda = -1$ in ②,

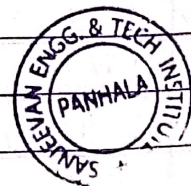
$$\begin{bmatrix} 5 & 6 & 6 \\ 1 & 4 & 2 \\ -1 & -4 & -2 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$5x + 6y + 6z = 0$$

$$x + 4y + 2z = 0$$

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$$\begin{array}{c} x \quad \quad \quad -y \quad \quad \quad z \\ \left| \begin{array}{cc} 6 & 6 \\ 4 & 2 \end{array} \right| = \left| \begin{array}{cc} 5 & 6 \\ 1 & 2 \end{array} \right| = \left| \begin{array}{cc} 5 & 6 \\ 1 & 4 \end{array} \right| \end{array}$$

$$\frac{x}{12-24} = \frac{-y}{10-6} = \frac{z}{20-6}$$

$$\frac{x}{-12} = \frac{-y}{14} = \frac{z}{14}$$

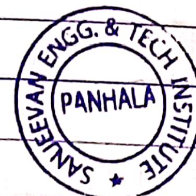
$$X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} -12 \\ -14 \\ 14 \end{bmatrix} = \begin{bmatrix} 6 \\ 7 \\ -7 \end{bmatrix}$$

Put, $\lambda = 1$ in (2)

$$\begin{bmatrix} 3 & 6 & 6 \\ 1 & 2 & 2 \\ -1 & -4 & -4 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

~~$$\begin{array}{c} x \quad \quad \quad -y \quad \quad \quad z \\ \left| \begin{array}{cc} 6 & 6 \\ 4 & 2 \end{array} \right| = \left| \begin{array}{cc} 5 & 6 \\ 1 & 2 \end{array} \right| = \left| \begin{array}{cc} 5 & 6 \\ 1 & 4 \end{array} \right| \end{array}$$~~

$$\begin{aligned} x + 2y + 2z &= 0 \\ -x - 4y - 4z &= 0 \end{aligned}$$



$$\begin{array}{c} x \quad \quad \quad -y \quad \quad \quad z \\ \left| \begin{array}{cc} 2 & 2 \\ -4 & -4 \end{array} \right| = \left| \begin{array}{cc} 1 & 2 \\ -1 & -4 \end{array} \right| = \left| \begin{array}{cc} 1 & 2 \\ -1 & -4 \end{array} \right| \end{array}$$

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$$\frac{x}{-8+8} = \frac{-y}{-4+2} = \frac{z}{-4+2}$$

$$\frac{x}{0} = \frac{-y}{-2} = \frac{z}{-2}$$

$$X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ -2 \\ -2 \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \\ 1 \end{bmatrix}$$

Put $\lambda = 4$ in (2)

$$\begin{bmatrix} -1 & 6 & 6 \\ 1 & -2 & 2 \\ -1 & -4 & -8 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$-x + 6y + 6z = 0$$

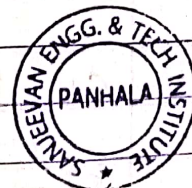
$$x - 2y + 2z = 0$$

$$\frac{x}{6-2} = \frac{-y}{-1-6} = \frac{z}{-1-6}$$

$$\frac{x}{12+12} = \frac{-y}{(-2-6)} = \frac{z}{(2-6)}$$

$$\frac{x}{24} = \frac{-y}{-8} = \frac{z}{-4}$$

$$X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 24 \\ 8 \\ -4 \end{bmatrix} = \begin{bmatrix} 6 \\ 2 \\ -1 \end{bmatrix}$$



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Q. 3)

a)
$$\begin{aligned} 4x - 2y - 6z &= 8 \\ x + y - 3z &= -1 \\ 15x - 3y + 9z &= 21 \end{aligned}$$

We have, $AX = B$

$$\begin{bmatrix} 4 & -2 & -6 \\ 1 & 1 & -3 \\ 15 & -3 & 9 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -1 \\ 21 \end{bmatrix}$$

$$\xrightarrow{4R_2 - R_1} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 15 & -3 & 9 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ 21 \end{bmatrix}$$

$$\xrightarrow{4R_3 - 15R_1} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 18 & 126 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ -36 \end{bmatrix}$$

$$\xrightarrow{R_3 - 3R_2} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 0 & 144 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ 0 \end{bmatrix}$$

$$\xrightarrow{\frac{1}{144} R_3} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ 0 \end{bmatrix}$$

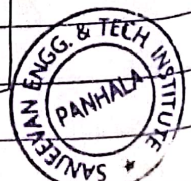
$$\xrightarrow{6R_3 + R_2} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ -12 \end{bmatrix}$$

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$S(A) = 2$, $S(A:B) = 3$

$S(A) \neq S(A:B) \therefore$ The given system is
inconsistent & it has no solⁿ.



b) $u = \log (x^3 + y^3 + z^3 - 3xyz)$

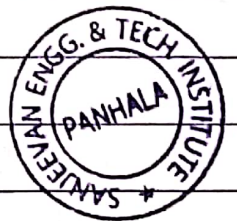
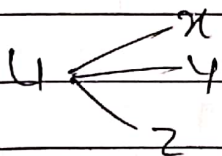
P.T. $\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right)^2 \cdot u = \frac{-9}{(x+y+z)^2}$

We have,

$$\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right)^2 \cdot u$$

$$\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right) \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right) u$$

$$\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right) \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} \right)$$



$$\frac{\partial u}{\partial x} = \frac{1}{(x^3 + y^3 + z^3 - 3xyz)} \cdot \frac{\partial}{\partial x} [x^3 + y^3 + z^3 - 3xyz]$$

$$= \frac{1}{(x^3 + y^3 + z^3 - 3xyz)} \cdot [3x^2 + 0 + 0 - 3yz \cdot 1]$$

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$$\frac{\partial u}{\partial x} = \frac{3x^2 - 3yz}{x^3 + y^3 + z^3 - 3xyz}$$

Similarly,

$$\frac{\partial u}{\partial y} = \frac{3y^2 - 3xz}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial z} = \frac{3z^2 - 3xy}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = \frac{3(x^2 + y^2 + z^2) - 3(xy + yz + zx)}{x^3 + y^3 + z^3 - 3xyz}$$

$$= \frac{3(x^2 + y^2 + z^2) - 3(xy + yz + zx)}{x^3 + y^3 + z^3 - 3xyz}$$

$$\therefore \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} \right)^2 = \left(x \frac{\partial}{\partial x} \frac{g}{x+y+z} \right) + \left(y \frac{\partial}{\partial y} \frac{g}{x+y+z} \right) + \left(z \frac{\partial}{\partial z} \frac{g}{x+y+z} \right)$$

$$\therefore \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right)^2 u = \frac{-g}{(x+y+z)^2}$$

Hence, proved.

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Department of
Basic Sciences and Humanities



Name of the Student: Karande Prachi Santay

Class: E.Y B.TECH (A)

Roll No.: 104

Subject: ENGINEERING MATHEMATICS Date: 12/01/2023

Language of Answer English

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

Main Answersheet + No. of Supplement = Total

01 + =

Supervisor's Signature

1 a. If $y = x^y$ then $\partial u / \partial x$ is
 $\Rightarrow$ ~~c) x^y~~ d) None

b. If Normal form of a given matrix is $\begin{bmatrix} I_r & 0 \\ 0 & 0 \end{bmatrix}$ then rank of Matrix is
 $\Rightarrow$ c) r

c. If $u = x^3 + y^3$, then $\frac{\partial u}{\partial x \partial y}$ is equal to.
 $\Rightarrow$ b) 3

d. The given homogeneous system of equations has inconsistent solution if.
 $\Rightarrow$ c) Rank of A $\neq$ rank of (A, B)

e. The product of eigen values for matrix A

$$= \begin{bmatrix} 1 & 0 & 0 \\ -5 & 2 & 0 \\ 7 & 2 & 5 \end{bmatrix} \text{ is}$$

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$\Rightarrow$ a) 10

f. If y_1, y_2, y_3 are eigen values of A then eigen values of A^3 are.

$\Rightarrow$ ~~a) y_1, y_2, y_3~~ b) y_1^3, y_2^3, y_3^3

2 a find A^{-1} by using Cayley Hamilton's theorem
for matrix

$$A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}$$

The given matrix = S_1

$$S_1 = 2 + 2 + 2 = 6$$

$$S_1 = 6$$

$$\begin{bmatrix} 2 & -1 \\ -1 & 2 \end{bmatrix} + \begin{bmatrix} 2 & 1 \\ 1 & -2 \end{bmatrix} + \begin{bmatrix} -1 & 2 \\ 1 & -1 \end{bmatrix}$$

$$-(0+2) + (0-0) + (2+0)$$

$$= (2) + (2)$$

$$S_2 = 4$$

$$\lambda^3 - S_1 - \lambda^2 + S_2 = |A| - 0 = 0$$

$$\lambda^3 - 6 - \lambda^2 + 4 = |A| - 0 = 0$$

$$|A| = 2 \begin{vmatrix} 2 & -1 \\ -1 & 2 \end{vmatrix} + 1 \begin{vmatrix} -1 & -1 \\ 1 & 2 \end{vmatrix} + 1 \begin{vmatrix} -1 & 2 \\ 1 & -1 \end{vmatrix}$$

$$= 2(4-1) + 1(-2+1) + 1(-1-2)$$

$$= 2(3) + 1(-1) + 1(-1)$$

$$= 6 - 1 - 1$$

$$|A| = 4$$

eqn (1) becomes

$$\lambda^3 - 6\lambda^2 + 9\lambda - 4 = 0$$

put $\lambda = A$ and $4 = 4I$

$$A^3 - 6A^2 + 9A - 4I = 0 \quad \text{--- (2)}$$

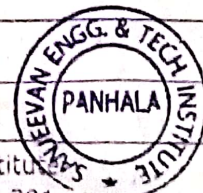
multiply by A^{-1} on both sides of eqn (2)

$$A^{-1}(A^3 - 6A^2 + 9A - 4I) = 0 \times A^{-1}$$

$$A^2 - 6A + 9I - 4A^{-1} = 0$$

$$A^2 - 6A + 9I = 4A^{-1}$$

$$A^{-1} = \frac{1}{4}(A^2 - 6A + 9I)$$



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2 b find the Eigen values an Eigen vector for

$$B = \begin{bmatrix} 4 & 6 & 6 \\ 1 & 3 & 2 \\ -1 & -4 & 3 \end{bmatrix}$$

$$S_1 = 4 + 3 + 3 = 10$$

$$\lambda^3 - S_1 - \lambda^2 - S_2 = |A| = 0$$

$$\begin{bmatrix} 3 & 2 \\ -4 & 3 \end{bmatrix} + \begin{bmatrix} 4 & 6 \\ -1 & 3 \end{bmatrix} + \begin{bmatrix} 1 & 3 \\ -1 & -4 \end{bmatrix}$$

$$(6+8) + (12+6) + (4+9) \\ (14) + (18) + (7) \\ = 39$$

$$\lambda^3 - 10 - \lambda^2 + 39 |A| = 0$$

$$\lambda^3 - 10 - \lambda^2 + 39 |A| = 0$$

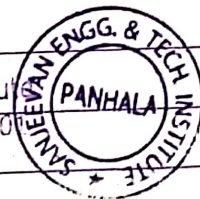
$$\lambda^3 - 10 - 3\lambda^2 + 39 |A| = 0$$

$$= 10, 3, 11$$

$$\begin{bmatrix} 4 & 6 & 6 \\ 1 & 3 & 2 \\ -1 & -4 & 3 \end{bmatrix}$$

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= Put in eqn in (10)

$$\begin{bmatrix} 4 & 6 & 6 \\ 1 & 3 & 2 \\ -1 & -4 & 3 \end{bmatrix}$$

$$4x + 6y + 6z = 0$$

$$x + 3y + 2z = 0$$

$$-x + 4y + 3z = 0$$

$$\begin{bmatrix} 3 & 2 \\ -4 & 3 \end{bmatrix} + \begin{bmatrix} 4 & 6 \\ -1 & 3 \end{bmatrix} + \begin{bmatrix} 1 & 3 \\ -1 & -4 \end{bmatrix}$$

3 b) $u = \log (x^3 + y^3 + z^3 - 3xyz)$

P.T $\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right)^2 u = \frac{-9}{(x+y+z)^2}$

we have;

$$\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right)^2 u$$

$$\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right) \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right) u$$

$$\left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right) \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} \right)$$

$$u \begin{matrix} x \\ y \\ z \end{matrix}$$

$$\frac{\partial u}{\partial x} = \frac{1}{(x^3 + y^3 + z^3 - 3xyz)} \cdot \frac{\partial}{\partial x} (x^3 + y^3 + z^3 - 3xyz)$$

$$= \frac{1}{(x^3 + y^3 + z^3 - 3xyz)}$$

$$(3x^2 + 0 + 0 - 3yz \cdot 1)$$

$$\frac{\partial u}{\partial x} = \frac{3x^2 - 3yz}{x^3 + y^3 + z^3 - 3xyz}$$

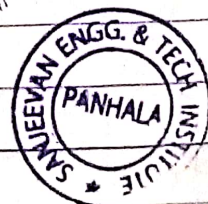
Similarly,

$$\frac{\partial u}{\partial y} = \frac{3y^2 - 3xz}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial z} = \frac{3z^2 - 3xy}{x^3 + y^3 + z^3 - 3xyz}$$

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z}$$

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$$= 3(x^2 + y^2 + z^2) - 3(xz + xy + yz)$$

$$x^2 + y^2 + z^2 - 3xyz$$

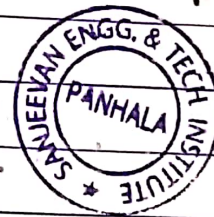
$$\left(\frac{\partial^4}{\partial x^4} + \frac{\partial^4}{\partial y^4} + \frac{\partial^4}{\partial z^4} \right)^2 = \left(x \frac{\partial}{\partial x} \left(\frac{3}{x+y+z} \right) + \frac{y \partial^3}{\partial x^3} + \frac{z \partial^3}{\partial x^3} \right)$$

$$\left(2 \frac{\partial}{\partial x} \cdot \frac{3}{3+y+z} \right)$$

$$\therefore \frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \cdot \frac{2 \cdot y \cdot z}{(x+y+z)^2} = 9$$

Hence proved.

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Q 9

$$4x - 2y - 6z = 8$$

$$x + y - 3z = -1$$

$$15x - 3y + 9z = 21$$

when

we have, $AX = B$

$$\begin{bmatrix} 4 & -2 & -6 \\ 1 & 1 & -3 \\ 15 & -3 & 9 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -1 \\ 21 \end{bmatrix}$$

$$\xrightarrow{4R_2 - R_1} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 15 & -3 & 9 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ 21 \end{bmatrix}$$

$$\xrightarrow{4R_3 - 15R_1} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 18 & 126 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ -36 \end{bmatrix}$$

$$\xrightarrow{R_3 - 3R_2} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 0 & 144 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ 0 \end{bmatrix}$$

$$\xrightarrow{\substack{R_3 \xrightarrow{1/144} \\ \text{New } 144}} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ 0 \end{bmatrix}$$

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$$\xrightarrow{6R_3 + R_2} \begin{bmatrix} 4 & -2 & -6 \\ 0 & 6 & -6 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 8 \\ -12 \\ -12 \end{bmatrix}$$



$$\rho(A) = 2, \rho(A:B) = 3$$

$\rho(A) \neq \rho(A:B)$: The given system is inconsistent and it has no solution



AQ 2

$$A = \begin{pmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{pmatrix}$$

We have, $\lambda^3 - S_1\lambda^2 + S_2\lambda - |A| = 0 \dots (1)$

$$S_1 = 6$$

$$S_2 = \begin{vmatrix} 2 & -1 \\ -1 & 2 \end{vmatrix} + \begin{vmatrix} 2 & 1 \\ 1 & 2 \end{vmatrix} + \begin{vmatrix} 2 & -1 \\ -1 & 2 \end{vmatrix}$$

$$S_2 = (4-1) + (4-1) + (4-1)$$

$$S_2 = 9$$

$$|A| = 2 \begin{vmatrix} 2 & -1 \\ -1 & 2 \end{vmatrix} + \begin{vmatrix} -1 & -1 \\ 1 & 2 \end{vmatrix} + \begin{vmatrix} -1 & 2 \\ 1 & -1 \end{vmatrix}$$

$$= 2(4-1) + 1(-2+1) + 1(1-2)$$

$$= 2(3) + 1(-1) + 1(-1)$$

$$= 6 - 1 - 1$$

$$|A| = 4$$

$\therefore$ eqn (1) becomes

$$\lambda^3 - 6\lambda^2 + 9\lambda - 4 = 0$$

Put $\lambda = A$ and $4 = 4I$

$$\therefore A^3 - 6A^2 + 9A - 4I = 0 \dots (2)$$

multiply by A^{-1} on both sides of eqn (2)

$$A^{-1}(A^3 - 6A^2 + 9A - 4I) = 0 \Rightarrow A^{-1}A^3 - 6A^{-1}A^2 + 9A^{-1}A - 4A^{-1}I = 0$$

$$A^2 - 6A + 9I - 4A^{-1} = 0$$

$$A^2 = \frac{1}{4}(A^2 - 6A + 9I)$$

$$A^2 = \begin{pmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{pmatrix} \begin{pmatrix} 2 & -1 & 1 \\ -1 & 2 \\ 1 & -1 & 2 \end{pmatrix}$$

$$= \begin{pmatrix} 6 & -5 & 5 \\ -5 & 6 & -5 \\ 5 & -5 & 6 \end{pmatrix}$$

$$A^{-1} = \frac{1}{4} \begin{pmatrix} 6 & -5 & 5 \\ -5 & 6 & -5 \\ 5 & -5 & 6 \end{pmatrix} = \frac{1}{4} \begin{pmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{pmatrix} + \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

$$A^{-1} = \frac{1}{4} \begin{pmatrix} 3 & 1 & -1 \\ 1 & -3 & 1 \\ -1 & 1 & 3 \end{pmatrix}$$

$$A^{-1} = \begin{pmatrix} 3/4 & 1/4 & -1/4 \\ 1/4 & 3/4 & 1/4 \\ 1/4 & 1/4 & 3/4 \end{pmatrix}$$

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Name of the Student Peachi Sanjay Khande. **Suppliment**

No. _____

Class : F.Y

Roll No. : 104

Subject : Maths

Date : _____

Supervisor's Signature

2. b) $B = \begin{bmatrix} 4 & 6 & 6 \\ 1 & 3 & 2 \\ -1 & -4 & -3 \end{bmatrix}$

$$\lambda^3 - S_1 \lambda^2 + S_2 \lambda - |A| = 0 \quad \text{--- (1)}$$

$$S_1 = 4 + 3 - 3$$

$$S_1 = 4$$

$$S_2 = \begin{vmatrix} 3 & 2 \\ -4 & -3 \end{vmatrix} + \begin{vmatrix} 4 & 6 \\ -1 & -3 \end{vmatrix} + \begin{vmatrix} 4 & 6 \\ 1 & 3 \end{vmatrix}$$

$$= (-9 + 8) + (-12 + 6) + (12 - 6)$$

$$= -1 - 6 + 6$$

$$S_2 = -1$$

$$|A| = 4 \begin{vmatrix} 3 & 2 \\ -4 & -3 \end{vmatrix} - 6 \begin{vmatrix} 1 & 2 \\ -1 & -3 \end{vmatrix} + 6 \begin{vmatrix} 1 & 3 \\ -1 & -4 \end{vmatrix}$$

$$|A| = 4(-9 + 8) - 6(-3 + 2) + 6(-4 + 3)$$

$$= 4(-1) - 6(-1) + 6(-1)$$

$$= -4 + 6 - 6$$

$$= -4$$

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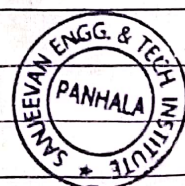
$$|A| = -4$$

eqn (1) become,

$$\lambda^3 - 4\lambda^2 + (-1)\lambda + 4 = 0$$

$$\lambda^3 - 4\lambda^2 - \lambda + 4 = 0$$

By using synthetic method.



$$(A - \lambda I)X = 0$$

$$\begin{bmatrix} 4-\lambda & 6 & 6 \\ 1 & 3-\lambda & 2 \\ -1 & -4 & -3-\lambda \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \quad \text{--- (2)}$$

put $\lambda = -1$ in (2)

$$\begin{bmatrix} 5 & 6 & 6 \\ 1 & 4 & 2 \\ -1 & -4 & -2 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$5x + 6y + 6z = 0$$

$$x + 4y + 2z = 0$$

$$\frac{x}{6-6} = \frac{-y}{5-6} = \frac{z}{1-2}$$

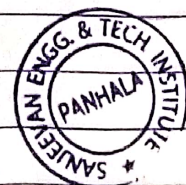
$$\frac{x}{12-24} = \frac{-y}{5-6} = \frac{z}{1-2}$$

$$\frac{x}{-12} = \frac{-y}{14} = \frac{z}{14}$$

$$X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} -12 \\ -14 \\ 14 \end{bmatrix} = \begin{bmatrix} 6 \\ 7 \\ -7 \end{bmatrix}$$

put $\lambda = 1$ in (2)

$$\begin{bmatrix} 3 & 6 & 6 \\ 1 & 2 & 2 \\ -1 & -4 & -4 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$



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$$x + 2y + 2z = 0$$

$$-x - 4y - 4z = 0$$

$$\begin{array}{ccc} x & & -y & & z \\ \left[\begin{array}{cc|c} 2 & 2 & 0 \\ -4 & -4 & 0 \end{array} \right] & = & \left[\begin{array}{cc|c} 1 & 2 & 0 \\ -1 & -4 & 0 \end{array} \right] & = & \left[\begin{array}{cc|c} 1 & 2 & 0 \\ -1 & -4 & 0 \end{array} \right] \end{array}$$

$$\frac{x}{-8+8} = \frac{-y}{-4+2} = \frac{z}{-4+2}$$

$$\frac{x}{0} = \frac{-y}{-2} = \frac{z}{-2}$$

$$X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ -2 \\ -2 \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \\ -1 \end{bmatrix}$$

put $\lambda = 4$ in (a)

$$\begin{bmatrix} 0 & 6 & 6 \\ 1 & -1 & 2 \\ -1 & -4 & -7 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$6y + 6z = 0$$

$$x - 2y + 2z = 0$$

$$\begin{array}{ccc} x & & -y & & z \\ \left[\begin{array}{cc|c} 6 & 6 & 0 \\ -1 & 2 & 0 \end{array} \right] & = & \left[\begin{array}{cc|c} 0 & 6 & 0 \\ 1 & 2 & 0 \end{array} \right] & = & \left[\begin{array}{cc|c} 0 & 6 & 0 \\ 1 & -1 & 0 \end{array} \right] \end{array}$$

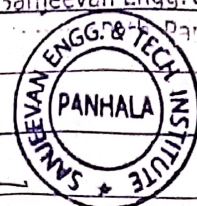
$$= \frac{x}{18} = \frac{-y}{-6} = \frac{z}{-6}$$

$$\frac{x}{18} = \frac{y}{6} = \frac{z}{-6}$$

$$X = \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 18 \\ 6 \\ -6 \end{bmatrix} = \begin{bmatrix} 3 \\ 1 \\ -1 \end{bmatrix}$$

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[Signature]
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Basic Sciences and Humanities

Academic Calendar for SY, TY & B.Tech Odd Semester (Academic Year - 2022-2023)

Month	Week No.	Week Days							No. of working days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
Sep-22	1				1	2	3	4	2	Student Internship
	2	5	6	7*	8	9	10	11	6	10 - Principal Address & Commencement Meeting (NBA)
	3	12	13	14	15	16	17	18	5	12 - Reporting to office & Commencement of Academics 12 to 17 - GTT Training 15 - Engineers Day Celebration, FY Bridge Course
	4	19	20	21	22	23	24	25	6	24 - Department Association Inauguration
	5	26	27	28	29	30			5	28 - Student Categorization(Week, Avarage, Bright) 29, 30 - CA I
Oct-22	6						1	2	0	02 - Mahatma Gandhi Jayanti
	7	3	4	5	6	7	8	9	5	05 - Dasara, 8 - Parents Teachers Meet, 9 - Id-E-Milad
	8	10	11	12	13	14	15	16	5	8, 22, 29 - Dept. Level / NSS Activity, GATE Awareness Programme
	9	17	18	19	20	21	22	23	6	14 - Feedback from Students
	10	24	25	26	27	28	29	30	3	19 to 21 - MSE, 22 - Central NBA Review
	11	31							1	24 & 26 - Dipawali, 29 - Project Phase I Progress Report
Nov-22	12		1	2	3	4	5	6	4	31 - Display of MSE Marks
	13	7	8	9	10	11	12	13	5	1 to 8 - Exam Form Filling for Regular & Supplementary Examinations
	14	14	15	16	17	18	19	20	5	08 - Guru Nanak Jayanti
	15	21	22	23	24	25	26	27	6	12, 26 - Dept. Level / NSS Activity, 12 - Central NBA Review
	16	28	29	30					3	9 to 15 - Exam form filling with Late fee, 17 to 19- University Tech fest
Dec-22	17				1	2	3	4	2	26- Project Phase I Progress Presentation
	18	5	6	7	8	9	10	11	6	30 - Feedback from Students
	19	12	13	14	15	16	17	18	5	1 & 2 - CA II
	20	19	20	21	22	23	24	25	1	10 - Department Level / NSS Activity & Parents Teachers Meet
		26	27	28	29	30	31			19 - End of Classes, 20 to 23 - Practical/project/ Seminar Examination, 25th Dec - Christmas Day, 22 to 24 - Uploading Internal & Practical marks
Jan-23								1		
		2	3	4	5	6	7	8		
		9	10	11	12	13	14	15		26th December 2022 to 21st January 2023 - End Semester Regular & Supplementary Examinations
		16	17	18	19	20	21	22		
		23	24	25	26	27	28	29		26th Jan - Republic Day, 28 - NBA Review- Dept. Presentation
Feb-23				1	2	3	4	5		
		6	7	8	9	10	11	12		1st February 2023 to 31st May 2023 - Academic Year 2022-23 Even Semester
		13	14	15	16	17	18	19		11 - NBA Review- Dept. Presentation
		20	21	22	23	24	25	26		
		27	28							21st February to 3rd March 2023 - Remedial Examinations
Total Working Days/110									81	
Govt. Holiday		Activities			Internal/ Practical Exam			Holiday		

Prepared by
Mr. P. P. Kulkarni

Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute

Principal
PRINCIPAL

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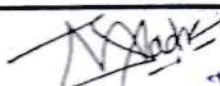
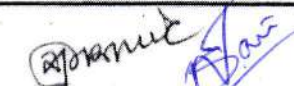
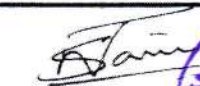


**Vision- SETI to educate to excel in social transformation****Academic Calendar Even Semester (Academic Year: 2022-2023)**

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28						2	27 - Commencement of Semester VI & VIII
MARCH			1	2	3	4	5	3	
	6	7	8	9	10	11	12	5	07 - Dhulivandan
	13	14	15	16	17	18	19	5	13 - Commencement of Semester IV
	20	21	22	23	24	25	26	5	22 - Gudhi Padwa
	27	28	29	30	31			4	27-29 - CA-I For Sem VI & VIII, 30- Ram Navami
APRIL						1	2	0	
	3	4	5	6	7	8	9	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	10	11	12	13	14	15	16	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	17	18	19	20	21	22	23	5	19-21- MSE Sem VI & VIII, 22 - Ramzan-Id
	24	25	26	27	28	29	30	5	28- Parent Meet for Sem VI & VIII
MAY	1	2	3	4	5	6	7	3	01- Maharashtra Din, 02-03- CA-I For Sem II, 05- Buddha Pournima
	8	9	10	11	12	13	14	6	08-10- CA-II Exam Sem VI & VIII
	15	16	17	18	19	20	21	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester
	22	23	24	25	26	27	28	6	25-27 - Pratical/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
	29	30	31					3	29 May- 02 June- MSE For Sem II
JUNE				1	2	3	4	2	29 May- 02 June- MSE For Sem II
	5	6	7	8	9	10	11	6	10- Parent Meet for Sem II
	12	13	14	15	16	17	18	5	12-23 ESE For Sem VI & VIII
	19	20	21	22	23	24	25	6	12-23 ESE For Sem VI & VIII
	26	27	28	29	30			4	28- Bakri Id, 29-30- CA-II For Sem II & IV
JULY						1	2	0	
	3	4	5	6	7	8	9	6	8- End of II & IV Semester
	10	11	12	13	14	15	16	5	09-10-Practical/Project/ Seminar Exam For Sem II & IV
	17	18	19	20	21	22	23	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	24	25	26	27	28	29	30		29- Moharum
	31								29 August- Result Declaration ESE For Sem II & IV
Govt. Holiday								105	17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V
Activities									

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

2. Each Department shall prepare their separate calendar to reflect departmental activities & Industrial Visits and Student Intrenship

Prepared By  Academic DeanVice Principal Principal 

Head of the Department

Electrical Engineering

Sanjeevan Engg. & Tech. Institute

Sanjeevan Engg. & Tech. Institute
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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 10th October, 2022

NOTICE

All the students of Electrical Engineering Department are to be informed that Continuous Assessment - 1 (CA1) Examination is scheduled on 17th October, 2022 and 18th October, 2022 for academic year 2022 - 2023.

Note: 1. Students who have taken admission will be allowed to appear for the CA1 examination.


Departmental Exam Incharge
Mr. V. T. Metkari


H.O.D. 10/10/2022
Mr. P. P. Kulkarni

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




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DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) - October 2022

TIME TABLE (Odd Semester) YEAR 2022 - 2023

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Course: S. Y. B. Tech_Sem - III



Date: 10.10.2022

Day & Date	Time	Subject Code	Name of Subject
MON 07.10.2022	10.00 AM to 10.30 AM	BTBS301	Engineering Mathematics-III *
	12.00 PM to 12.30 PM	BTEEC302	Electrical Machines-I *
TUE 18.10.2022	10.00 AM to 10.30 AM	BTEEC303	Electrical & Electronics Measurement
	12.00 PM to 12.30 PM	BTES305	Engineering Material Science *


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


H.O.D.
Mr. P. P. Kulkarni

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Somwar Peth, Panhala - 416 201




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DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) - October 2022

TIME TABLE (Odd Semester) YEAR 2022 - 2023

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: T. Y. B. Tech_Sem - V



Date: 10.10.2022

Day & Date	Time	Subject Code	Name of Subject
MON 7.10.2022	10.00 AM to 10.30 AM	BTEEC501	Power System Analysis *
	12.00 PM to 12.30 PM	BTEEC502	Microprocessor and Microcontroller *
TUE 8.10.2022	10.00 AM to 10.30 AM	BTEEC503	Power Electronics
	12.00 PM to 12.30 PM	BTEEPE504A	Industrial Automation
	02.30 PM to 03.00 PM	BTEEOE505B	Electrical Safety *

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



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DEPARTMENT OF ELECTRICAL ENGINEERING



Continuous Assessment - 1 (CA1) - October 2022

TIME TABLE (Odd Semester) YEAR 2022 - 2023

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: B. Tech_Sem - VII

Date: 10.10.2022

Day & Date	Time	Subject Code	Name of Subject
MON 17.10.2022	10.00 AM to 10.30 AM	BTEEC701	Power System Operation & Control *
	12.00 PM to 12.30 PM	BTEEC702	High Voltage Engineering *
TUE 18.10.2022	10.00 AM to 10.30 AM	BTEEC703	Electrical Drives *
	12.00 PM to 12.30 PM	BTEEE704	Electrical Traction and Utilization
	02.30 PM to 03.00 PM	BTEEE705	HVDC Transmission and FACTS *

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

H.O.D. 10/10/2022

Mr. P. P. Kulkarni

Head of the Department
Electrical Engineering
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SETI/Exam/Mid Sem/Part-I/2022-23/62

Examination Section

Date: 07/11/2022

Notice

All Second year, Third year and Final Year Engineering students are hereby informed that **Mid semester Examination 2022-23(Part-I)** is scheduled from **10 November to 12 November 2022**. kindly take a note of following:

1. **No Student will be allowed for Mid semester examination if current year Admission status is pending.** All must take note of same.
2. **Institute ID Card is mandatory while examination.**

Cc:-

All Heads of department

Department Examination Coordinators



Controller Of Examination

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

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Somwar Peth, Panhala - 416 201



MID TERM EXAMINATION - November-2022 TIME TABLE

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday, 10/11/2022	10.00 am To 11.00am	Computer	SY	BTBS301	Engineering Mathematics -III
			TY	BTCOC501	Database Systems
			B.Tech	BTCOC701	Software Engineering
		Civil	SY	BTBS301	Mathematics - III
			TY	BTCVC 501	Design of Steel Structures
			B.Tech	BTCVC701	Design of Concrete Structures - II
		Electrical	SY	BTBS301	Engineering Mathematics-III
			TY	BTEEC501	Power System Analysis
			B.Tech	BTEEC701	Power System Operation & Control
		Mechanical	SY	BTBS301	Engineering Mathematics III
			TY	BTMC501	Heat Transfer
			B.Tech	BTMEC701	Mechatronics
		E&TC	B.Tech	BTETPE702	Satellite Communication
		Automobile	B.Tech	BTAMC701	Automobile Air Conditioning
	03.00 pm To 04.00 pm	Computer	SY	BTCOC302	Discrete Mathematics
			TY	BTCOC502	Theory of Computation
			B.Tech	BTCOE702	(b) Distributed System
		Civil	SY	BTCVC5302	Mechanics of Solids
			TY	BTCVC 502	Geotechnical Engineering
			B.Tech	BTCVC702	Infrastructure Engineering
		Electrical	SY	BTEEC302	Electrical Machines-I
			TY	BTEEC502	Microprocessor and Microcontroller
			B.Tech	BTEEC702	High Voltage Engineering
		Mechanical	SY	BTMEC302	Fluid Mechanics
			TY	BTMC502	Machine Design - I
			B.Tech	BTMEC702	CAD/CAM
		E&TC	B.Tech	BTETPE703	Artificial Intelligence Deep Learning
		Automobile	B.Tech	BTAMC702	Vehicle Performance and Testing
Friday, 11/11/2022	10.00 am To 11.00am	Computer	SY	BTCOC303	Data Structures
			TY	BTCOC503	Software Engineering
			B.Tech	BTCOE703	(a) Cloud Computing
		Civil	SY	BTCVC303	Building Construction & Drawing
			TY	BTCVC 503	Structural Mechanics -II
			B.Tech	BTCVC703	Water Resources Engineering
		Electrical	SY	BTEEC303	Electrical & Electronics Measurement
			TY	BTEEC503	Power Electronics
			B.Tech	BTEEC703	Electrical Drives
		Mechanical	SY	BTMC303	Thermodynamics
			TY	BTMC503	Theory of Machines -II
			B.Tech	BTMEC703	Manufacturing Processes -III
		E&TC	B.Tech	BTHM705	Financial Management
		Automobile	B.Tech	BTAMC703	Automotive Emission and Control
	03.00 pm To 04.00 pm	Computer	SY	BTCOC304	Computer Architecture & Organization
			TY	BTCOE504	(b) Numerical Methods
			B.Tech	BTCOE704	(b) Computer Graphics
		Civil	SY	BTCVC304	Hydraulics -I
			TY	BTCVC 504	Concrete Technology
			B.Tech	BTCVC704	Professional Practices
		Electrical	SY	BTES305	Engineering Material Science
			TY	BTEEP504	(A) Industrial Automation
			B.Tech	BTEEE704	Electrical Traction and Utilization
		Mechanical	SY	BTMES304	Material Science & Metallurgy
			TY	BTAPE504D	Automobile Engineering
			B.Tech	BTMEC704E	RAAC
		E&TC	B.Tech	BTETC701	Digital Communication
		Automobile	B.Tech	BTMEC704C	Finite Element Method

Saturday, 12/11/2022	10.00 am To 11.00am	Computer	SY	BTCOC305	(b) Object Oriented Programming in Java
			TY	BTHM505	(b) Business Communication
		Civil	SY	BTCVC305	Surveying
			TY	BTHM505	Project Management
			B.Tech	BTCVE705A	Construction Techniques
		Electrical	TY	BTEEOE505	(B) Electrical Safety
			B.Tech	BTEEE705	HVDC Transmission and FACTS
	03.00 pm To 04.00 pm	Mechanical	TY	BTMOE505B	Renewable Energy Sources
		E&TC	B.Tech	BTETPE704	Electronics in Smart City
		Civil	TY	BTCVPE506	Material, Testing and Evaluation
			B.Tech	BTCVOE706D	Introduction to Earthquake Engineering
			TY	BTMEC502	Applied Thermodynamics



Controller Of Examination


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

DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 29th November, 2022.

NOTICE

All the faculty members are hereby informed that Continuous Assessment - 2 (CA2) Examination is scheduled from 1st December, 2022 to 9th December, 2022. Kindly take as per your convince and with any mode(Seminar / Assignment / Group Discussion / Quiz).

Kindly complete within the given time and also inform to student about your schedule.


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


H. O. D.

Mr. P. P. Kulkarni


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




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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 20th March, 2023

NOTICE

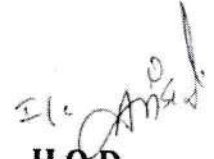
All the students of Electrical Engineering Department are to be informed that Continuous Assessment - 1 (CA1) Examination is scheduled on **27th March, 2023 and 28th March, 2023** for academic year 2022 - 2023.

- Note: 1. Those Students who have completed Fee 100% of their fee structure will be allowed to appear for the CA1 examination.
2. Those Students who have attendance 75% will be allowed to appear for the CA1 examination


Departmental Exam Incharge
Mr. V. T. Metkari


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


H.O.D.


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



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE



DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) - March 2023

TIME TABLE (Even Semester) YEAR 2022 - 2023

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: T. Y. B. Tech_Sem - VI



Date: 21.03.2022

Day & Date	Time	Subject Code	Name of Subject
MON 27.03.2023	10.00 AM to 10.30 AM	BTEEC601	Switchgear Protection
	12.00 PM to 12.30 PM	BTEEC602	Electrical Machine Design
TUE 28.03.2023	10.00 AM to 10.30 AM	BTEEC603	Control System Engineering
	12.00 PM to 12.30 PM	BTEEPE604B	Smart Grid Technology
	02.30 PM to 03.00 PM	BTEEOE605B	Power Plant Engineering

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

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



PRINCIPAL

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

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

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE



DEPARTMENT OF ELECTRICAL ENGINEERING

Continuous Assessment - 1 (CA1) - March 2023

TIME TABLE (Even Semester) YEAR 2022 - 2023

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: B. Tech_Sem - VIII



Date: 14.03.2023

Day & Date	Time	Subject Code	Name of Subject
MON 27.03.2023	10.00 AM to 10.30 AM	BTEE0801B	DC Power Transmission Systems
	12.00 PM to 12.30 PM	BTEE0802F	Introduction to Industry 4.0 and Industrial Internet of Things


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


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

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




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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 11th April, 2023

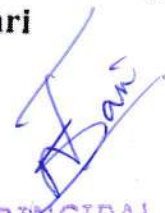
NOTICE

All the students of Third Year & Final Year Electrical Engineering Department are to be informed that Mid Semester Examination (MSE) Examination is scheduled on 24th April, 2023 and 25th April, 2023 for academic year 2022 - 2023.

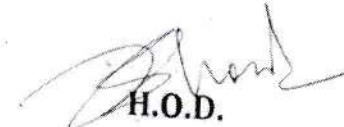
- Note: 1. Those Students who have completed Fee 100% of their fee Structure will be allowed to appear for the MSE examination.
2. Those Students who have attendance 75% will be allowed to Appear for the MSE examination


Departmental Exam Incharge
Mr. V. T. Metkari




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


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

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



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DEPARTMENT OF ELECTRICAL ENGINEERING

Mid Semester Examination (MSE) - April 2023

TIME TABLE (Even Semester) YEAR 2022 - 2023

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Course: T. Y. B. Tech_Sem - VI



Date: 18.04.2023

Day & Date	Time	Subject Code	Name of Subject
MON 24.04.2023	10.00 PM to 11.00 AM	BTEEC601	Switchgear Protection
	12.00 PM to 01.00 PM	BTEEC602	Electrical Machine Design
TUE 25.04.2023	10.00 AM to 11.00 AM	BTEEC603	Control System Engineering
	12.00 PM to 01.00 PM	BTEEPE604B	Smart Grid Technology
	02.30 PM to 03.30 PM	BTEEOE605B	Power Plant Engineering

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

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

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



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DEPARTMENT OF ELECTRICAL ENGINEERING

Mid Semester Examination (MSE) - April 2023

TIME TABLE (Even Semester) YEAR 2022 - 2023

Centre - SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE , PANHALA

Course: B. Tech_Sem - VIII



Date: 18.04.2023

Day & Date	Time	Subject Code	Name of Subject
MON 24.04.2023	10.00 PM to 11.00 AM	BTEE0801B	DC Power Transmission Systems
	12.00 PM to 01.00 PM	BTEE0802F	Introduction to Industry 4.0 and Industrial Internet of Things

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



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Electrical Engineering
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	DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.	
	Sanjeevan Engineering & Technology Institute, Panhala.	
	Department of Electrical Engineering	
	Mid Semester Examination 2022-23	
	SEMESTER: VI	ACADEMIC YEAR: 2022-23
	NAME OF STUDENT:	PRN.:
	CLASS: T.Y.	Time : 25/04/2023
	DAY & DATE:	Marks: 20
	SUBJECT NAME WITH CODE: Power Plant Engineering (BTEE0E605B)	

Instructions to the Students:

1. All question is compulsory in Section – I.
2. Attempt any 2 question in Section – II.
3. Attempt any 2 question in Section – III.

Section – I

Question No.	Sub Question	Question	CO	PO	Marks
1.					
	a.	Which of the following station is least efficient..... a.Nuclear power plant b.Diesel power station c.Thermal power station d.None of the above	1	1	1
	b.	Plant capacity factor is_ a. Ratio of avg.load on machine to rating of machine b. Ratio of avg.load to peak load c. Ratio of max. demand on system to total connected load d. Ratio sum of individual max demand to max.demand of total group	1	1	1
	c.	In thermal power plants, the function of economizer is to: a. Heat steam from boiler b. Heat feed water using flue gas c. Heat air fuel mixture d. Heat steam taken from turbine outlets	2	1	1
	d.	The efficiency of hydro power turbine is--- a. Work done/ potential energy of stored water b. Electricity generated/ Kinetic energy available c. Both (a) & (b) d. None	2	1	1

Name of the Student Somnuddhi Vilas Kamble

Class : T.Y.

Roll No. : 80

Subject : Powers plant Engineering Date : 25-04-23

Supervisor's Signature

Q.1.

a) b

b) a

c) c

d) b

Q.2.

a) Load factor: It is average load $\sqrt{\text{to the peak load}}$ called load factor. ratio

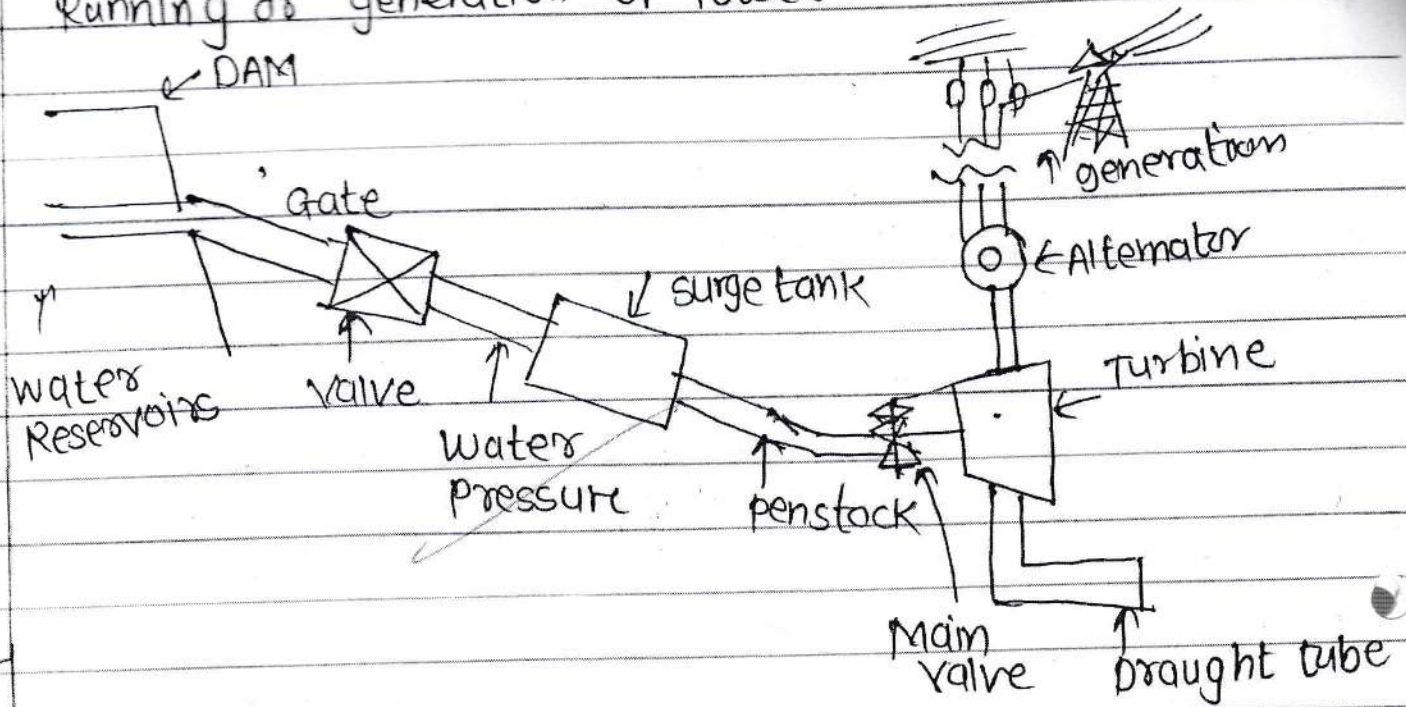
$$\text{Load factor} = \frac{\text{Average load}}{\text{Peak load}}$$

b) Utility factor: It is ratio of ~~m~~ maximum demand to the total connected load called utility factor.

c) Load duration curve: It is the curve between time & load. where representation of load ~~wt. x~~ to time in decreasing Magnitude. called load duration curve.

b]

In Hydropower plant water is main resources to Running or generation of Power.



This is schematic representation of Hydro-power plant. In the Hydro Power $\rightarrow$ Water is Sources of energy which is ~~the~~ Potential energy converted into kinetic energy by using Turbine.

Water $\longrightarrow$ Electricity energy

Main components of Hydro power plant are.

- Water Reservoir
- DAM
- Penstock
- surge tank
- Main valve
- Turbine
- Alternator
- draught tube.

Dam is water storage barrier where water is stored which can be stopped or barrier.

Water Reservoir is ~~the~~ water is stored, when, rainy season water is stored in that area in huge amount.

Valve is present at the Hydropower plant to open or close the water. when power generation is start or then at that time Valve get open. when generation is stopped at that time Valve get closed.

~~Penstock~~ surgetank: In surgetank water is stored when turbine or penstock is fully with pressure water that excess water goes or stored at surgetank

Penstock: Through the penstock High pressure water is passed through it to the turbine for generation of power. By penstock High pressure water is fed on turbine.

Turbine: Turbine is main component of power plant. High pressure water is coming from penstock is fed on turbine, turbine start rotate, when turbine is rotated electricity generation is start.

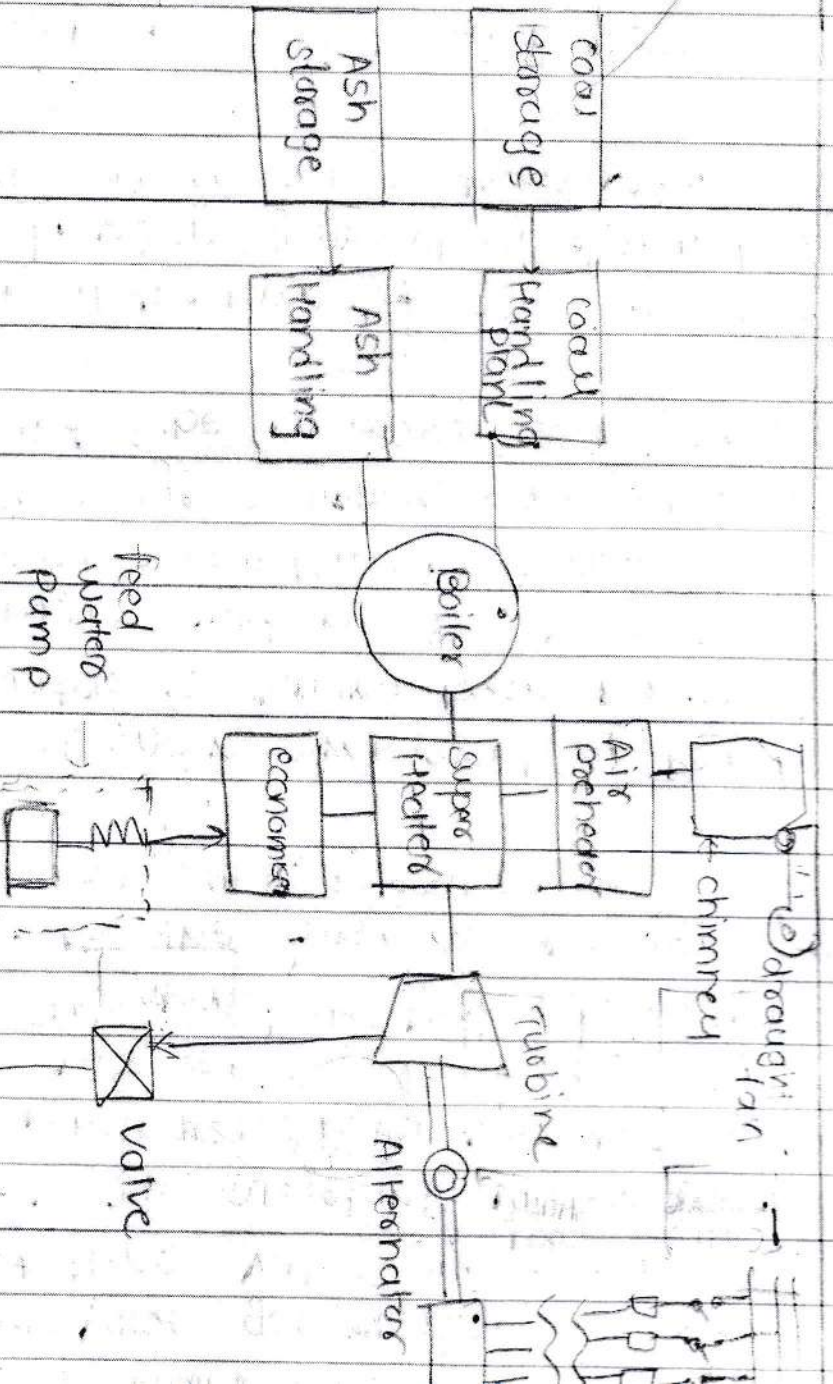
Draught tube: When wastage or unnecessary require water is ~~th~~ fed to draught tube in river. or for irrigation purpose.

Main valve: When at the time of generation stop then main valve is closed. when generation demand or start generation at rainy season then main valve get open.

Alternator: Electricity produce through ~~a~~ Alternator is fed to the consumers.

coal & High amount of Heat is produced. due
 coal is transferred to the Boiler. Boiler is Burn the
 or belt. then transfer to the coal Handling plant
 that pulverized coal is transported through conveyor
 In the Thermal Power plant coal is pulverized
 Coal → steam → Turbine → generation.

In the Thermal power plant, coal is source coal
 is Burn or produce steam, that steam is rotated
 to turbine



Schematic representation of Thermal Power plant

Suppliment

No. _____

Name of the Student Sammuddhi Kambale

Class : T.Y

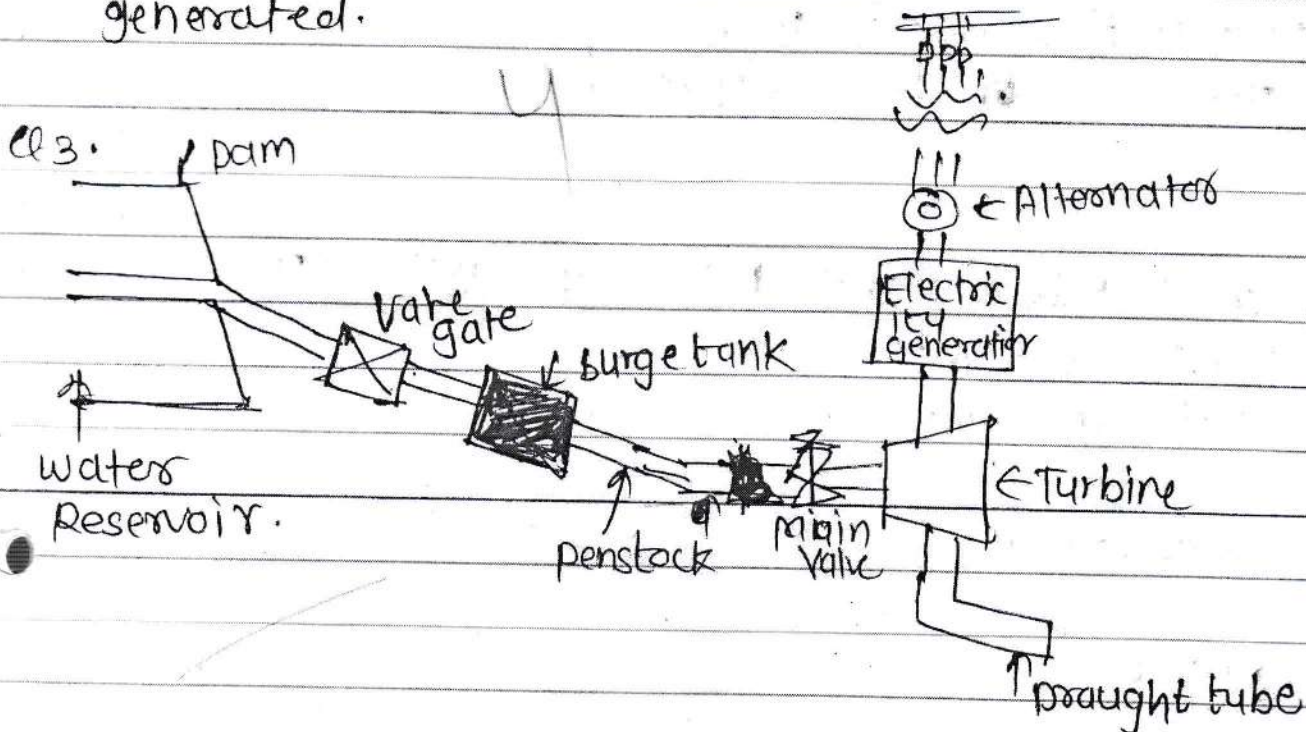
Roll No. : 80

Subject : PPE

Date : 05-04-23

Supervisor's Signature

that Heat or steam is high temperature that passed to the SuperHeater, super Heaters reduce the moisture & again passed to the turbine, turbine start rotates & due to turbine rotates Alternator through electricity generated.



Water is source of energy. Water is stored in dam. that stored water is can be coming at gate through the penstock water is highly pressure transferred to the Turbine. Turbine start rotate due to High pressure water, through the Alternator electricity generate. Wastage water is transferred through the Draught Tube to the river.

Surge tank is provided at ~~down~~ Hydro power plant for

When required then that time surge tank water is can be used.

In Hydropower plant High pressure water $\rightarrow$ (potential energy) $\rightarrow$ converted into kinetic energy

Advantages of Hydropower plant

- Pollution free
- Generation cost is less as compare Nuclear or thermal power plant.
- Availability of water is maximum or easily

Dis-advantage:

- Installation cost is High
- skilled labour required

Q. 3

Q1 In thermal Power plant Following Auxillary used

- ① Coal Handling plant
- ② Ash Handling plant
- ③ Boilers
- ④ Super Heaters
- ⑤ Air pre heaters
- ⑥ Economisers
- ⑦ Turbine
- ⑧ Draught fan
- ⑨ Condenser
- ⑩ chimney

In Boiler there is High amount of coal or burn or Heat is produced from it, that heat is High pressure Heat. Passed to Super Heaters. Boilers are main type:

Super Heaters: In superheaters High pressure steam or Heat is come that Heat is with moisture, so in super Heaters Moisture is removed & again Heat that at High temperature.

Air preheaters: In Air preheaters that Heated steam is again Heat or given High temperature for again use.

economisers: Low temp steam come from the Condenser or feed water pump again or Heat or used for Generation.

Draught fan:- Through the draught fan unwanted or moisture steam is fed out at atmosphere.

Condenser:- Condenser is used to cooling the High pressure steam.

Chimney:- Chimney is used for fumes or gases from power plant are

V 4


Head of the Department
Electrical Engineering
Sanjeevan Engg. & Tech. Institute
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DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.

Sanjeevan Engineering & Technology Institute, Panhala

Department of Electrical Engineering

CA-I

SEMESTER: VI ACADEMIC YEAR: 2022-2023

CLASS: T.Y Electrical

MARKS: 10

DAY & DATE: 28/03/2023

Time: 02.30 PM to 3.00 PM

SUBJECT: Power Plant Engineering

Roll No. 30

All questions are compulsory.

Q. No.	Questions	Marks	CO	PO
1.	Which one of the following is not a renewable source? - Uranium a) Sun b) Wind b) Hydrod) Uranium	1	1	1
2.	Common energy source in Indian villages is: a) Coal b) Wood and animal dung c) Electricity d) None Of These	1	1	1
3.	Lignite, bituminous and anthracite are different ranks of: a) Coal b) Nuclear fuel c) Natural gas d) Biogas	1	1	1
4.	What is Kaplan turbine a) Axial flow turbine b) Inward flow turbine c) Tangential flow turbine d) Mixed flow turbine	1	1	1

Attempt any two

Q. No.	Questions	Marks	CO	PO
1	Explain conventional and non-conventional energy sources?	3	1	1
2	Explain any one method of MHD power generation?	3	1	1
3	Explain any one method of Generator Excitation control?	3	1	1

* Conventional energy sources are classified into commercial non-commercial energy sources.

Conventional energy - commercial energy sources - commercial energy sources which are less in amount in nature or we can pay cost for that energy sources called conventional energy sources. like Coal, oil & Natural gas, thermal power.

② Non-commercial energy sources - sources of energy which are available in Nature in tremendous form called non-conventional energy sources. e.g. firewood, Hydropower, ~~Nuclear power~~ etc. we need pay cost for this type of energy sources.

* Non-conventional energy sources are classified into Renewable energy sources or non-renewable energy sources.

Renewable energy sources which are available in nature but it can use again and again, it can be ~~not~~ be created ~~of~~ new

be destroyed. Like Solar energy, Wind energy etc, Tidal energy.

Non-Renewable energy sources: This type of sources are not available in nature, or in its limited form or not be created.

Non-renewable energy sources destroy or extinct conditions. It is not created or use again & again.
E.g like Coal (Thermal energy), Nuclear power,

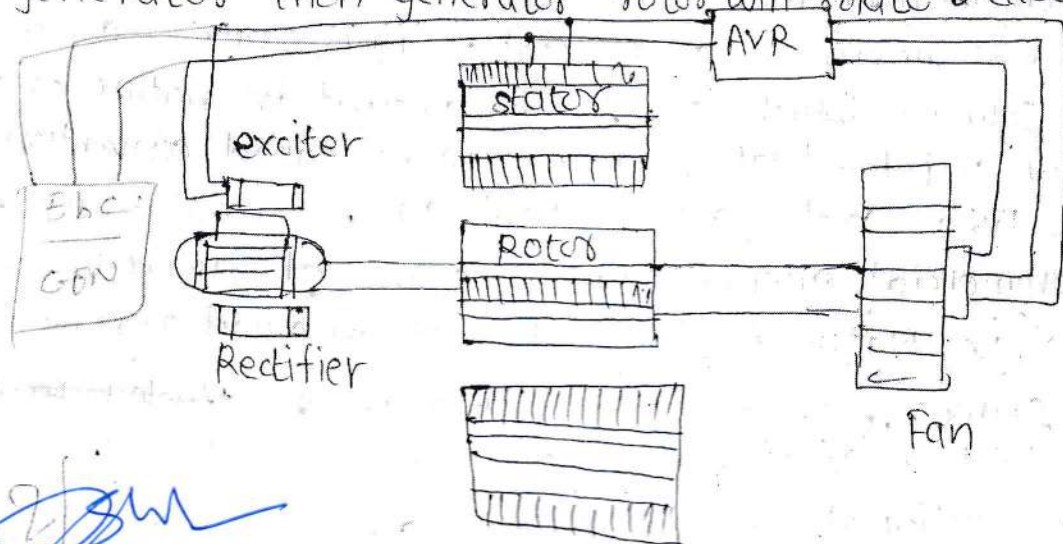
Q.3. Excitation System for the generator control is that method which is current is passes through the generator ^{through the stator} then there is AC quantity. but at generator field winding by providing DC supply ^(Rectified) we can provide excitation. Excitation is required to the rotation of generator rotor.

Excitation method are as follows:

- ① Self or shunt excited method.
- ② Excitation Boost generator
- ③ Permanent magnet generator
- ④ Auxiliary winding

Excitation Boost generator is again classified into:

- ① Excitation Boost control: In excitation Boost control there is
- ② the AVR senses the Input signal AC quantity then that sens value at stator side is provided to the Rectifier. Rectifier Rectified AC quantity into DC quantity ~~at stator side~~. Then By DC quantity supply given the field winding ~~them~~ of generator then generator rotor will rotate & excitation is appli





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Sanjeevan Engineering & Technology Institute, Panhala

Department of Electrical Engineering

CA-II

SEMESTER: VIACADEMIC YEAR:2022-2023

CLASS:T.Y

MARKS: 10

DAY & DATE :

Time:

SUBJECT:Power Plant Engineering

seti

INSTRUCTIONS:

- 1) In Section-I All questions are compulsory.
- 2) Attempt any TWO from section-II

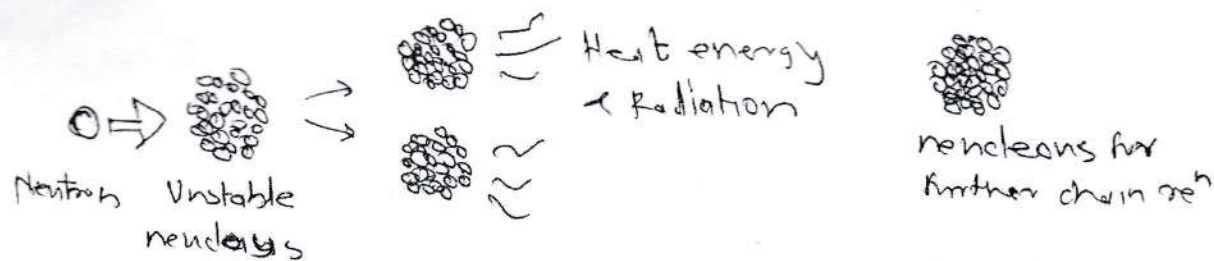
Section - I

Q. No.	Questions	Marks	CO	PO
1.	In nuclear power station ,moderator is used for a) absorb neutrons b) reduce speed of neutrons c) accelerate the speed of neutrons d) stop chain reaction	1	3	1
2.	Which of the following is NOT commonly used fuel for nuclear power plants? a) TH-90 b) U-238 c) U-235 d) PU-244	1	3	1
3.	Which is known as the heart of an atomic power plants? a) Streamer b) Turbine c) Reactor d) Cooling tower	1	3	1
4.	The material used for the construction of control rod in nuclear reactor is : a) copper b) Cadmium c) Graphite d) Silicon	1	3	1

Section - II

Q. No.	Questions	Marks	CO	PO
1	Explain nuclear reaction in nuclear power plant.	3	3	1
2	Explain types of nuclear reactor.	3	3	1
3	Write short note on: a. Nuclear shielding b. Nuclear waste disposal	3	3	1

1) nuclear reaction in nuclear power plant.



The heavy unstable nucleons split into no. of nuclei by bombarding heavy neutrons. The large amount of heat energy is liberated from this action, is called fission process.

There two of chain reaction one is controlled chain reaction and other is uncontrolled chain reaction.

3) a) Nuclear shielding

- i) It is outer body of the nuclear reactor.
- ii) It is made from metal or concrete.
- iii)

b) Nuclear waste disposal

- i) It is most important task in the nuclear power plant to disposal of waste
- ii) The waste in the nuclear power plant is radioactive substance. there for disposal is done in proper manner.

Name - Omkar Ashok Gawade
Roll No - 15 Year - T.Y.

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	Department of Electrical Engineering	
	CA-I	
	SEMESTER: VII	ACADEMIC YEAR: 2022-2023
	CLASS: B.Tech T.Y	MARKS: 10
	DAY & DATE: 17/10/2022	Time: 12.00 PM to 12.30 PM
	SUBJECT: Microprocessor and microcontroller	

INSTRUCTIONS:

- 1) In Section-I All questions are compulsory.
- 2) Attempt any TWO from section-II

Section - I

Q. No.	Questions	Marks	CO	PO
1.	Microprocessor consist of a) ALU b) Register array c) Control unit ☒ d) All of above	1	1	1
2.	An 8-bit microprocessor can process _____ data at a time. A. 4-bit ☒ B. 8-bit C. 16-bit D. All of the above	1	1	1
3.	Accumulator has _____ A. 4-bit register ☒ B. 8-bit register C. 16-bit register D. 32-bit register	1	1	1
4.	Which of the following is true about microprocessors? a) It has an internal memory b) It has interfacing circuits ☒ c) It contains ALU, CU, and registers d) It uses Harvard architecture	1	1	1

Section - II

Q. No.	Questions	Marks	CO	PO
1	How does Microprocessor work	3	1	1
2	Features of 8085 microprocessor	3	1	1
3	What are different register used in microprocessor	3	1	1

Q1) How does microprocessor work.

→ microprocessor - microprocessor is programmable, clock driven, register based electronic device that reads instruction from storage device takes the data from I/P unit and processes the data according to instruction and provides the result to O/P unit.

How it is work -

① To execute a program, A microprocessor reads equation, instruction from memory, interprets then execute, or port it

② The right name for cycle is

① Fetch

② Decode

③ execute

③ This sequence is until all instruction are performed.

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Features of 8085 microprocessor -

- ① 8085 IC is developed by Intel.
- ② 8 bit microprocessor can accept by 8 bit data simultaneously.
- ③ operates on single +5VDC supply.
- ④ Designed using NMOS Technology.
- ⑤ 6200 Transistor on single chip.
- ⑥ It provides on chip clock generator.
- ⑦ operates on 3MHz/10K frequency.
- ⑧ 8 bit multiplexed Address data bus, which reduce the number of pins. ⑨ 16 address lines hence it can address $2^{16} = 256 \text{ K}$ ports.
- ⑩ 6 Hardwired interrupts P.C TRAP, RST6, RST4, RST5, INTR.
- ⑪ It provides DMA.



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Department of Electrical Engineering

Mid Semester Examination 2022



SEMESTER: VII

ACADEMIC YEAR: 2022-23

NAME OF STUDENT:

PRN.:

CLASS: B.Tech

Time : 10.00 to 11.00 AM

DAY & DATE: Friday 11/11/2022

Marks: 20

SUBJECT NAME WITH CODE: Electrical Drives (BTEEC703)

Instructions to the Students:

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

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following				4×1 =4
	a.	Power modulator consist of a. Convertors b. Variable Impedance c. Switching circuits d. All of above	1	1	BL1	1
	b.	Load torque are classified into____ a. Active load b. Passive load c. Active load and passive load d. None of above	1	1	BL2	1
	c.	Load equalization is the process of____ a. Smoothing the constant load b. Smoothing the fluctuating load c. Smoothing the heavy load d. All of above	1	1	BL3	1
	d.	In multi-quadrant operation drive work in____ a. I quadrant and II quadrant b. II quadrant and III quadrant c. III quadrant and VI quadrant d. In all quadrants	1	1	BL4	1
2.		Solve Any Two of The Following				3 ×2 = 6
	a.	Explain multi quadrant operation of electric drive.	1	1	BL3	3
	b.	Explain classification of load torque.	1	1	BL4	3
	c.	Discuss concept of load equalization in drives	1	1	BL5	3

3	Solve Any two of the following					5 × 2 = 10
	a.	What are the different modes of operation of electric drive?	2	2	BL5	5
	b.	Draw and explain multi motor drives in closed loop control of ED.	2	2	BL5	5
	c.	Draw and Explain torque control method in closed loop control of ED.	2	2	BL6	5

***** END *****

Name of the Student: Rabiya Shaikat Mulla

Class: B.Tech.

Roll No.: 30

Subject: ED.

Date: 11-10-22

Language of Answer: English

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

Main Answersheet + No. of Supplement = Total

01 + 0 = 1

Supervisor's Signature

17
20

Q.1

a. (d) → All of above

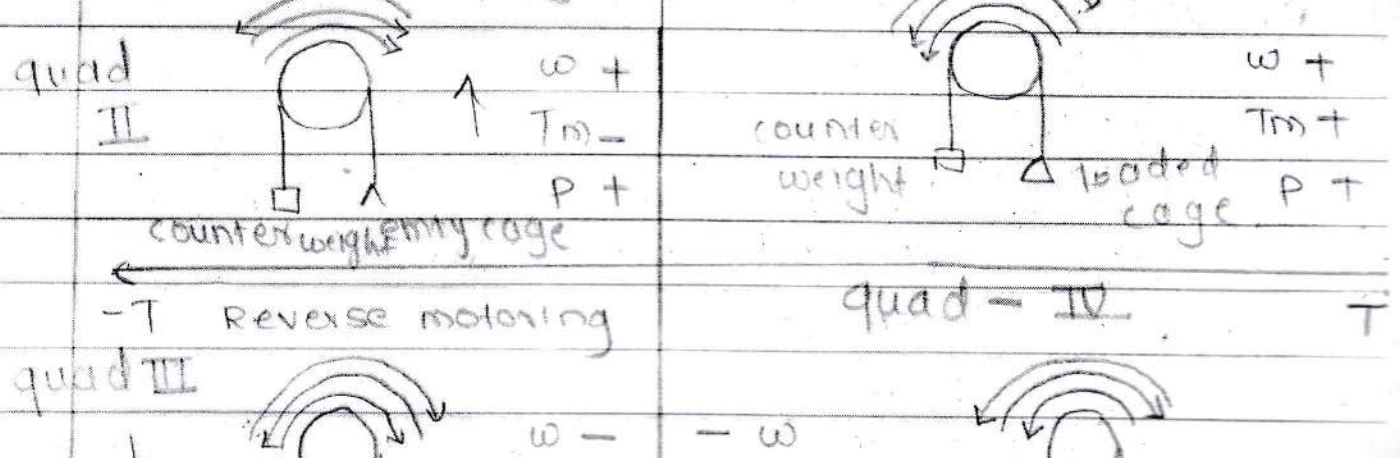
b. (e) → Active load & passive load.

c. (b) → smoothing the fluctuating load.

d. (d) → In all quadrants.

Q.2

a) * Multi quadrant operation of electric drive.



1) When a power +ve and torque will be +ve and speed in +ve direction is called as Forward motoring.

2) When a power +ve and torque will be negative, the speed in positive direction is called as ~~Reverse~~ braking.
Forward

3) When a power positive & torque will be negative the speed is negative direction is called forward Reverse braking motoring.

4) When a power negative & torque will be positive the speed in negative direction is called braking.

- In upper quadrant is upper position and lower quadrant is lower position.

b) Classification of load torque,

* Load torque is also classified into two types:

1) Active load torque

2) Passive load torque.

1) Active load torque:-

- load torque which is has potential to drive the motor in a under equilibrium condition these is called a "Active load torque"
- for example:
 1. Torque due to force of gravity
 2. Torque due to tension.

2) Passive load torque:-

- In these load torque is appose to the motion of these sign is reversal of the motion is called passive load torque
- for example:
 1. cutting.
 2. friction.

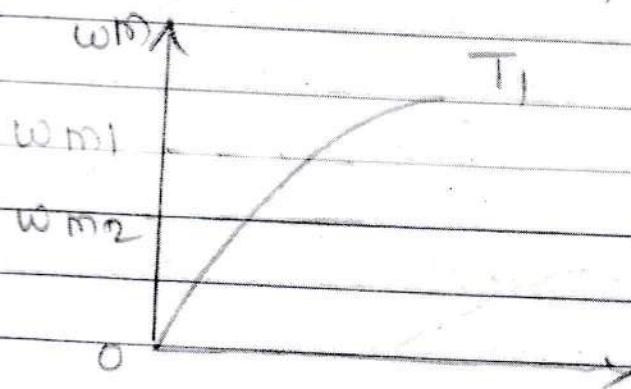
Q3.

a) * There are 3 types of modes of operation.

- 1) Steady state mode operation
- 2) Acceleration including starting mode.
- 3) Deceleration including in braking mode.

→ Steady state mode of operation,

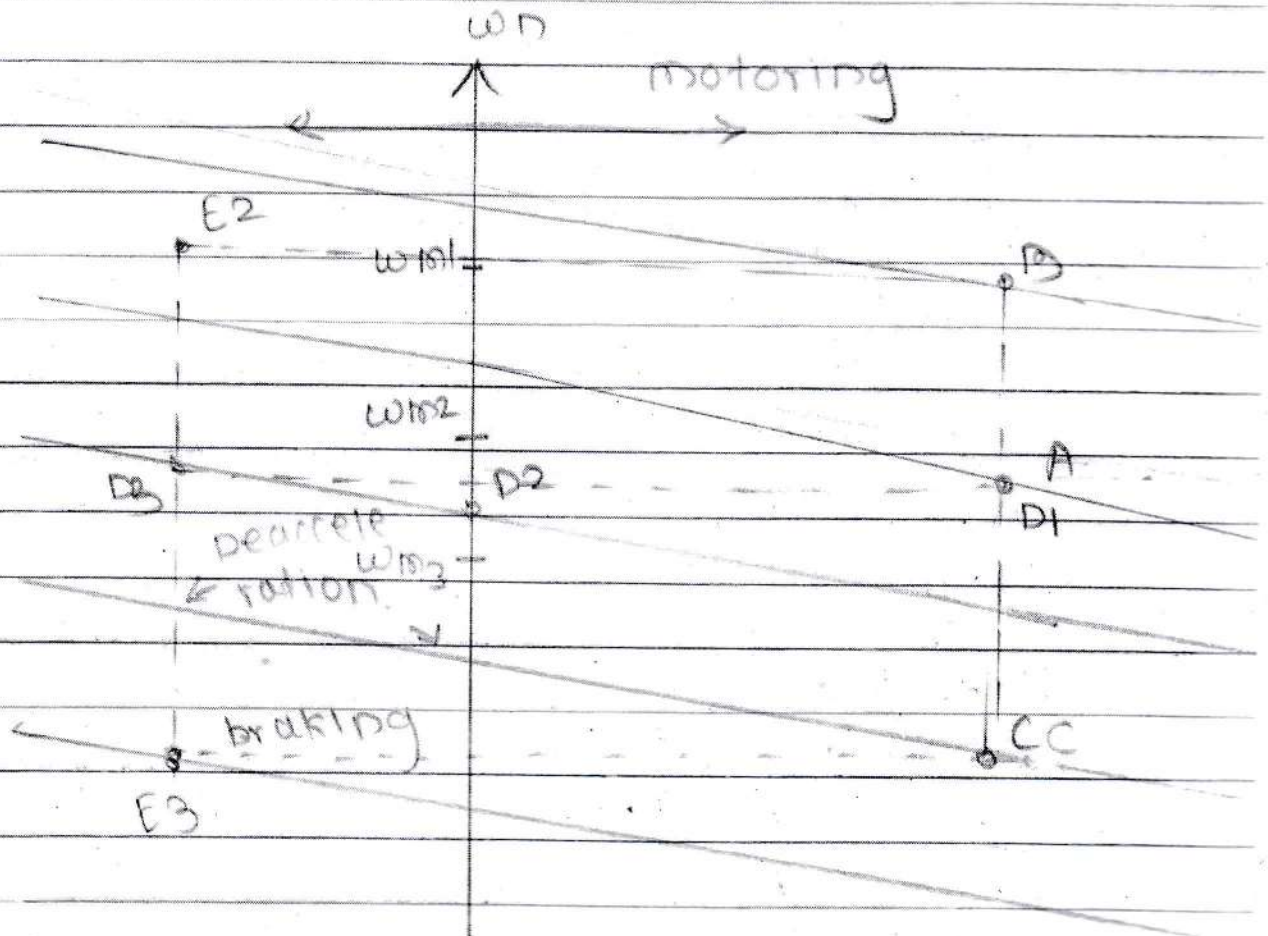
- In these mode the motor torque is equal to the load torque
- In the motor and load torque equale at this speed.
- change in motor torque is achived by varying the steady state motor torque airgap.



-fig shows the, the motor torque are adjusted by the speed torque curve 1.

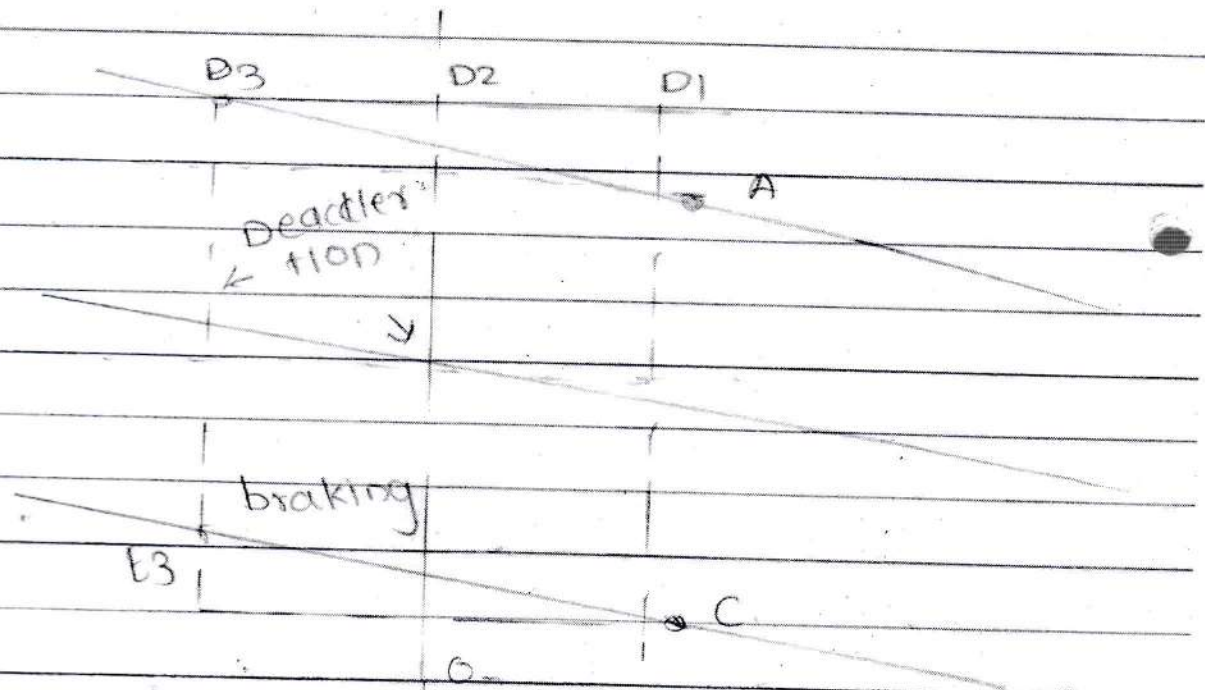
2) Acceleration including in starting mode's

- These mode it's operates in transient mode.
- Driven operation takes place whenever the increases a speed required.
- For these motor speed torque must be change, so that motor torque is greater than load torque i.e. ($M_T > L_T$)
- In the increase a speed ~~torque~~ torque by increase the motor circuit. it is must be not allowed to exceed the rated value.

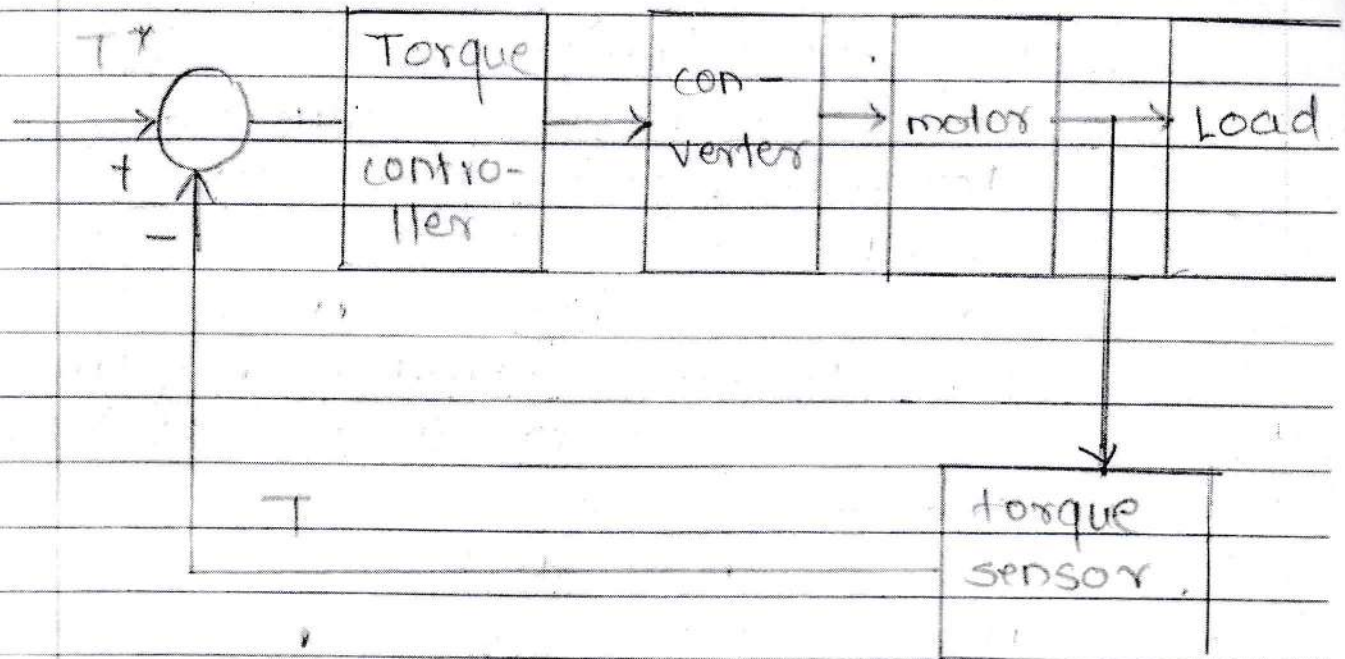


9) Deceleration including in braking mode.

- This mode is operated in transient mode. driven operation ~~but~~ takes place whenever decreases in it's speed required.
- Whenever load torque exceeds the motor torque.
i.e. ($T_L > T_M$)
- The mechanical brake is used for produce required magnitude of deceleration
- Both motor torque and load torque apposes the motion



c) * Torque control method in close loop control of ED :-



* For some examples :-

1. In these torque control method the these type of control is used in battery vehicles such as a cars electric trains, etc.
2. The speed feedback loop are activated by ~~at~~ driver.
3. In inner control loop controls the motor current and motor speed below the safe limit.
4. By pushing the accelerator by the driver is depending on the load condition, car condition, traffic, speed, etc.

* Working

* Working of closed loop

1. The actual load torque is follow the 'T', whenever it's control by the driver via accelerator.
2. The input ^{of} from the torque controller it's the controls the torque, and these input sends to the converter.
3. converter converts input from the torque controller in the required form of the motor.
4. And then gives to the motor. the is connected to the load.
5. The torque of the motor is sense by the torque sensor and these signal give in loop. and follow these process.
6. The inner control loop controls the motor torque and motor speed below the speed limit.
7. Torque sensor mechanical torque into electrical torque.
8. which pass through converter and motor. reference torque T^* adjusted by accelerator.

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Electrical Engineering

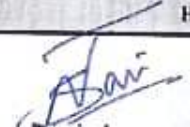
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Somwar Peth, Panhala - 416 201

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Somwar Peth, Panhala - 416 201



Civil Department Academic Calendar Odd Semester (Academic Year - 2022-2023)

Month	Week No.	Week Days							No. of working days	Events	
		MON	TUE	WED	THUR	FRI	SAT	SUN			
September	1				1	2	3	4	2	Student Interenship	
	2	5	6	7	8	9	10	11	6		
	3	12	13	14	15	16	17	18	5		GTT Training week
	4	19	20	21	22	23	24	25	6		Poject Group Formation and Guid Allotment
	5	26	27	28	29	30			5		29 to 30- CA-I
October	6						1	2	0	02nd Oct - Mahatma Gandhi Jayanti	
	7	3	4	5	6	7	8	9	5	05th Oct - Dasara, 9th Oct - Id-E-Milad, 8- Guest Lectuters	
	8	10	11	12	13	14	15	16	5	14- Feedback From Students	
	9	17	18	19	20	21	22	23	6	19 to 21 - MSE	
	10	24	25	26	27	28	29	30	3	NAAC Review Meeting	
	11	31							1	31 - Display of MSE Marks	
November	12		1	2	3	4	5	6	4		
	13	7	8	9	10	11	12	13	5	9-11 Industrial Visit, 8th Nov - Guru Nanak Jayanti	
	14	14	15	16	17	18	19	20	5		
	15	21	22	23	24	25	26	27	6	15th Nov to 24th Nov - Mid Semester Examination	
	16	28	29	30					3	Seminar Presentation	
December	17				1	2	3	4	2	Project Presentation	
	18	5	6	7	8	9	10	11	6	NAAC Review Meeting, 10 - Parents Meet	
	19	12	13	14	15	16	17	18	5	19- End of Classes, 20-23- Practical Exam	
	20	19	20	21	22	23	24	25	1	22-24th Dec - Upload Int/Pr Marks, 25th Dec - Christmas Day	
		26	27	28	29	30	31				
January								1		26th Dec 22- 21 Jan-23 - End Sem Exam Regular Exam	
		2	3	4	5	6	7	8			
		11	10	11	12	13	14	15			
		16	17	18	19	20	21	22			
		23	24	25	26	27	28	29			26 - Republic Day
February		30	31							NAAC Review Meeting	
				1	2	3	4	5		Survey Project	
		6	7	8	9	10	11	12			
		13	14	15	16	17	18	19		19th Feb - Shivaji Maharaj Jayanti	
		20	21	22	23	24	25	26		21st Feb to 3rd March - Remedial Examination	
		27	28								
Total Working Days									81		
Govt. Holiday		Activities			Internal/Practical Exam			Holiday			
 HOD CIVIL Sanjeevan Engineering & Technology Institute Somwar Peth, Panhala, Dist. Kolhapur. (416 201)  Principal Dr. Sajeer N. Jain											

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 Pin- 416 201 (Maharashtra) Phone : 9146999100

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Vision- SETI to educate to excel in social transformation
Civil Department Academic Calendar Even Semester (Academic Year: 2022-2023)

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28						2	27 - Commencement of Semester VI & VIII
MARCH			1	2	3	4	5	3	02 - B. Tech Project Presentaion
	6	7	8	9	10	11	12	5	07 - Dhulivandan
	13	14	15	16	17	18	19	5	13 - Commencement of Semester IV
	20	21	22	23	24	25	26	5	22 - Gudhi Padwa 24- NAAC Review Meeting
	27	28	29	30	31			4	27-29 - CA-I For Sem VI & VIII, 30- Ran Navami
APRIL						1	2	0	
	3	4	5	6	7	8	9	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	10	11	12	13	14	15	16	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	17	18	19	20	21	22	23	5	19-21- MSE Sem VI & VIII, 22 - Ramzan-Id
	24	25	26	27	28	29	30	5	28- Parent Meet for Sem VI & VIII
MAY	1	2	3	4	5	6	7	3	01- Maharashtra Din, 02-03- CA-I For Sem II, 05- Buddha Pournima
	8	9	10	11	12	13	14	6	08-10- CA-II Exam Sem VI & VIII, 11- Guest Lecture
	15	16	17	18	19	20	21	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester
	22	23	24	25	26	27	28	6	25-27 - Practical/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
	29	30	31					3	29 May- 02 June- MSE For Sem II
JUNE				1	2	3	4	2	29 May- 02 June- MSE For Sem II
	5	6	7	8	9	10	11	6	10- Parent Meet for Sem II, 7 - Industrial Visit
	12	13	14	15	16	17	18	5	12-23 ESE For Sem VI & VIII
	19	20	21	22	23	24	25	6	12-23 ESE For Sem VI & VIII
	26	27	28	29	30			4	28- Bakri Id, 29-30- CA-II For Sem II & IV
JULY						1	2	0	
	3	4	5	6	7	8	9	6	8- End of II & IV Semester
	10	11	12	13	14	15	16	5	09-10-Practical/Project/ Seminar Exam For Sem II & IV
	17	18	19	20	21	22	23	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	24	25	26	27	28	29	30		29- Moharum
									29 August- Result Declaration ESE For Sem II & IV
Govt. Holiday									105
Activities									17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V

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

2. Each Department shall prepare their separate calendar to reflect departmental activities & IV, Student Internship



DTE Code : **EN6315**



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AISHE Code : C-11165

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Nandurbar Knowledge City, Somwar Peth-Jajale, Panchala, Dist. Panhala, Dist. Kolhapur
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NOTICE

CA-I

(S.Y., T.Y. & B.Tech.)

Date -11/10/22

The CA-I test for S.Y., T.Y. and B.Tech. is scheduled between 17th & 18th October 2022. In this regard all the staff are hereby informed that, they have to submit their CA-I TEST question paper in prescribed format (hard copy 2 set) and answer key to Exam co-ordinator on or **before 14th October 2022** 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


Prof. J. S. Mevekari

H.O.D. Civil
Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth, Panchala, Dist. Kolhapur, (416 201)

1 EPS 

2 SSC 

3 AND 

4 AMM 

5 SMS 

6 JJG 

7 NIGK 

DTE Code: **EN6315**



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MSR Code : 6-1105

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All the Students are hereby informed that, CA-I is schedule on 17 & 18 October 2022. Time Table is given in follow

CA 1 EXAM TIME TABLE 2022-2023				
DATE	TIME	S.Y.	T.Y.	B.Tech
17/10/22	10:00AM To 10.30AM	MOS	DSS	DCS-II
	10:40AM To 11:10AM	HYD-I	SM-II	PP
	11:20AM To 12:20PM	MIII	GT	IE
18/10/22	10:00AM To 10.30AM	SUR	CT	WRE
	10:40AM To 11:10AM	BCD	PM	EQ
	11:20AM To 11:50AM		MTE	CT

Dept. Exam. Incharge

(A.C. Thoke)

HOD

Civil Engineering

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

EPN - ~~EPN~~
AMM - ~~AMM~~

SSC - ~~SSC~~

SMS - ~~SMS~~

AND - ~~AND~~
NAE - ~~NAE~~



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SANJEEVAN

DTE Code : **EN6315**

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : 6-41165

ENGINEERING & TECHNOLOGY INSTITUTE, PANCHALA
Sanjeevan Knowledge City, Somwar Peth-Jajale, Panchala, Tal. Panchala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) (Phone : 91-4699950)

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-I TIME TABLE 2022-2023				
SEATING ARRANGEMENT				
DATE	CLASS	A106	A107	A108
17/10/22	S.Y.	-	-	1 To 11
	T.Y.	1 To 35	36 To 71	-
	B.Tech.	-	1 To 35	36 To 58
18/10/22	S.Y.	-	-	1 To 11
	T.Y.	1 To 35	36 To 71	-
	B.Tech.	-	1 To 35	36 To 58

Dept. Exam. Incharge

(A.C. Thoke)

HOD

Civil Engineering

Sanjeevan Engineering & Technology Institute
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EPS - *[Signature]*

AND - *[Signature]*

JSG - *[Signature]*

SMIS - *[Signature]*

SSC - *[Signature]*

NAK - *[Signature]*

AMM - *[Signature]*

DTE Code : **EN6315**



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AISHE Code : C-11165

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-I TIME TABLE 2022-2023
SUPERVISION CHART

DATE	TIME	A106	A107	A108
17/10/22	10:00AM To 10.30AM	Prof. Dhende A. N.	Prof. Shinde S.M.	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof. Shinde S.M.	Prof. Chavan S.S.	Prof. Gavade J.J.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Gavade J.J.	Prof. Dhende A. N.
18/10/22	10:00AM To 10.30AM	Prof. Salokhe E.P.	Prof. Dhende A. N.	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof. Salokhe E.P.	Prof. Chavan S.S.	Prof. Shinde S.M.
	11:20AM To 11:50AM	Prof. Gavade J.J.	Prof. Salokhe E.P.	Prof. Chavan S.S.

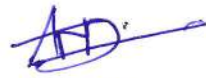
Dept.Exam. Incharge

(A.C.Thoke)

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Somwar Peth, Panchala, Dist. Kolhapur. (416 201)

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NOTICE

CA-I TEST

(S.Y)

Date -21/12/22

The CA-I test for S.Y. is scheduled On **27th December 2022**. In this regard all the staff are here by informed that , they have to submit their CA-I TEST question paper in prescribed format(hard copy 2 set) to Exam co-ordinator on or **before 24th December 2022** 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


Prof. J. S. Mevekari

HOD
Civil Engineering

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

- 1 EPS - 
- 2 SSC - 
- 3 AMM - 
- 4 NaK - 
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AISHE Code : C-11165

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All the Students are hereby informed that, CA-I is
schedule on 27 December 2022. Time Table is
given in follow

CA 1 EXAM TIME TABLE 2022-2023		
DATE	TIME	S.Y.
27/12/22	10:00AM To 10.30AM	MOS
	10:40AM To 11:10AM	HYD-I
	11:20AM To 11:50AM	BCD
	12:00 To 12:30PM	SUR
	2:15PM To 3:15PM	MIII

Dept. Exam. Incharge

(A.C. Thoke)

HOD
Civil Engineering

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

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CA-II TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
02/03/23	S.Y.	1 To 35	36 To 50


Dept. Exam. Incharge
CA - C Thokey


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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-I TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
27/12/22	10:00AM To 10:30AM	Prof. Shinde S.M.	Prof. Chavan S.S.
	10:40AM To 11:10AM	Prof. Gavade J.J.	Prof. Chavan S.S.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Gavade J.J.
	12:00 To 12:30PM	Prof. Salokhe E.P.	Prof. Shinde S.M.
	2:15PM To 3:15PM	Prof. Salokhe E.P.	Prof. Momin A.M.

Dept. Exam. Incharge

A.C. Thorke

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AMM - AM
SMS - SM
SEC - SEC
JJB - JJB
AND - AND
NAB - NAB
EPS - EPS



Holy-wood Academy, Kolhapur's

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Website : www.seti.edu.in

Email : principal@seti.edu.in, office@seti.edu.in

EN 6315

SETI/Exam/Mid Sem/Part-I/2022-23/62

Examination Section

Date: 07/11/2022

Notice

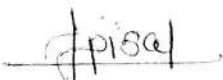
All Second year, Third year and Final Year Engineering students are hereby informed that **Mid semester Examination 2022-23(Part-I)** is scheduled from **10 November to 12 November 2022**. kindly take a note of following:

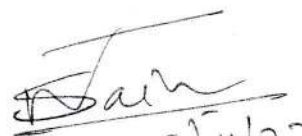
1. **No Student will be allowed** for Mid semester examination if current year **Admission status is pending**. All must take note of same.
2. **Institute ID Card** is mandatory while **examination**.

Cc:-

All Heads of department

Department Examination Coordinators


Controller Of Examination


PRINCIPAL 8/11/22



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Holy-wood Academy, Kolhapur

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA.



MID TERM EXAMINATION - November-2022 TIME TABLE

Day & Date	Time	Branch Name	Class	Subject Code	Subject Name
Thursday, 10/11/2022	10.00 am To 11.00am	Computer	SY	BTBS301	Engineering Mathematics –III
			TY	BTCOC501	Database Systems
			B.Tech	BTCOC701	Software Engineering
		Civil	SY	BTBS301	Mathematics – III
			TY	BTCVC 501	Design of Steel Structures
			B.Tech	BTCVC701	Design of Concrete Structures - II
		Electrical	SY	BTBS301	Engineering Mathematics-III
			TY	BTEEC501	Power System Analysis
			B.Tech	BTEEC701	Power System Operation & Control
		Mechanical	SY	BTBS301	Engineering Mathematics III
			TY	BTMC501	Heat Transfer
			B.Tech	BTMEC701	Mechatronics
		E&TC	B.Tech	BTETPE702	Satellite Communication
		Automobile	B.Tech	BTAMC701	Automobile Air Conditioning
	03.00 pm To 04.00 pm	Computer	SY	BTCOC302	Discrete Mathematics
			TY	BTCOC502	Theory of Computation
			B.Tech	BTCOE702	(b) Distributed System
		Civil	SY	BTCVES302	Mechanics of Solids
			TY	BTCVC 502	Geotechnical Engineering
			B.Tech	BTCVC702	Infrastructure Engineering
		Electrical	SY	BTEEC302	Electrical Machines-I
			TY	BTEEC502	Microprocessor and Microcontroller
			B.Tech	BTEEC702	High Voltage Engineering
		Mechanical	SY	BTMEC302	Fluid Mechanics
			TY	BTMC502	Machine Design - I
			B.Tech	BTMEC702	CAD/CAM
		E&TC	B.Tech	BTETPE703	Artificial Intelligence Deep Learning
		Automobile	B.Tech	BTAMC702	Vehicle Performance and Testing
Friday, 11/11/2022	10.00 am To 11.00am	Computer	SY	BTCOC303	Data Structures
			TY	BTCOC503	Software Engineering
			B.Tech	BTCOE703	(a) Cloud Computing
		Civil	SY	BTCVC303	Building Construction & Drawing
			TY	BTCVC 503	Structural Mechanics –II
			B.Tech	BTCVC703	Water Resources Engineering
		Electrical	SY	BTEEC303	Electrical & Electronics Measurement
			TY	BTEEC503	Power Electronics
			B.Tech	BTEEC703	Electrical Drives
		Mechanical	SY	BTMC303	Thermodynamics
			TY	BTMC503	Theory of Machines -II
			B.Tech	BTMEC703	Manufacturing Processes -III
		E&TC	B.Tech	BTHM705	Financial Management
		Automobile	B.Tech	BTAMC703	Automotive Emission and Control
	03.00 pm To 04.00 pm	Computer	SY	BTCOC304	Computer Architecture & Organization
			TY	BTCOE504	(b) Numerical Methods
			B.Tech	BTCOE704	(b) Computer Graphics
		Civil	SY	BTCVC304	Hydraulics -I
			TY	BTCVC 504	Concrete Technology
			B.Tech	BTCVC704	Professional Practices
		Electrical	SY	BTES305	Engineering Material Science
			TY	BTEEP504	(A) Industrial Automation
			B.Tech	BTEEE704	Electrical Traction and Utilization
		Mechanical	SY	BTMES304	Material Science & Metallurgy
			TY	BTAPE504D	Automobile Engineering
			B.Tech	BTMEC704E	RAAC
		E&TC	B.Tech	BTETC701	Digital Communication
		Automobile	B.Tech	BTMEC704C	Finite Element Method

Saturday, 12/11/2022	10.00 am To 11.00am	Computer	SY	BTCOC305	(b) Object Oriented Programming in Java
			TY	BTHM505	(b) Business Communication
		Civil	SY	BTCVC305	Surveying
			TY	BTHM505	Project Management
			B.Tech	BTCVE705A	Construction Techniques
		Electrical	TY	BTEEOE505	(B) Electrical Safety
			B.Tech	BTEEE705	HVDC Transmission and FACTS
		Mechanical	TY	BTMOE505B	Renewable Energy Sources
		E&TC	B.Tech	BTETPE704	Electronics in Smart City
	03.00 pm To 04.00 pm	Civil	TY	BTCVPE506	Material, Testing and Evaluation
			B.Tech	BTCVOE706D	Introduction to Earthquake Engineering
			TY	BTMEC502	Applied Thermodynamics


 Controller Of Examination



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Sanjeeran Engineering and Technology Institute, Panhala

Examination Department

Invigilation Duties (Civil Engineering)

Mid Semester Examination 2022-23

set

Sr. No.	Dept	Name of Staff	Role	10/11/2022		11/11/2022		12/11/2022		Staff Sign
				M	A	M	A	M	A	
1	Civil	Mr. Chavan Shrivallabh Sanjeyao	Jr. Supervisor	1	1					
3		Mr. Shinde Sagar Maruti	Jr. Supervisor	1	1					
4		Mr. Mevekar Jabbar Siraj	Jr. Supervisor			1				
5		Mr. Gavade Jagdish Jyotiba	Jr. Supervisor			1	1			
6		Mr. Dherode Abhideep Nandkumar	Jr. Supervisor	1	1					
7		Mr. Salokhe Eknath Pandurang	Jr. Supervisor			1				
8		Miss. Momin Anarkali Majid	Jr. Supervisor	1		1				

M: Morning session: 09:30 am to 11:00

A: Afternoon Session : 2:30 pm to 4:00 pm

Controller Of Examination

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NOTICE

MID TERM TEST

(S.Y.)

Date -12/01/23

The MID TERM test for S.Y. is scheduled between 19th to 20th January 2023. In this regard all the staff are here by informed that, they have to submit their MID TERM TEST question paper in prescribed format(hard copy 2 set) to Exam co-ordinator on or **before 16th January 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


Prof. J. S. Mevekari

H.O.D. Civil

Civil Engineering

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

1 EPS 

2 SSC - 

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All the Students are hereby informed that, MID
TERM EXAM is schedule on 19 & 20 JANUARY
2023. Time Table is given in follow

MID EXAM TIME TABLE 2022-2023		
DATE	TIME	S.Y.
19/01/23	10:00AM To 11:00AM	MOS
	11:30AM To 12:30PM	HYD-I
	02:30PM To 03:30PM	BCD
20/01/23	10:00AM To 11:00AM	SUR
	11:30AM To 12:30PM	MIII

Dept. Exam. Incharge

CA - C Thokre

HOD
Civil Engineering

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

NAK - ~~NAK~~
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JSG - ~~JSG~~
SMS - ~~SMS~~
SSC - ~~SSC~~
AMM - ~~AMM~~



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DTE Code : **EN6315**

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AISHE Code : G-11165

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MID TERM EXAM TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
19/01/23	S.Y.	1 To 35	36 To 50
20/01/23	S.Y.	1 To 35	36 To 50

Dept. Exam. Incharge

(A.C. Thore)

HOD
Civil Engineering

Sanjeevan Engineering & Technology Institute
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AISEE Code : 6-13165

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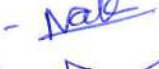
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S.Y. MID TERM EXAM TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
19/01/23	10:00AM To 11:00AM	Prof. Shinde S.M.	Prof. Dhende A. N.
	11:30AM To 12:30PM	Prof. Gavade J.J.	Prof. Chavan S.S.
	02:30PM To 03:30PM	Prof. Momin A.M.	Prof. Dhende A. N.
20/01/23	10:00AM To 11:00AM	Prof. Salokhe E.P.	Prof. Dhende A. N.
	11:30AM To 12:30PM	Prof. Dhende A. N.	Prof. Gavade J.J.


Dept. Exam. Incharge
(A.C. Thoke)


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NOTICE

CA-II TEST

(T.Y.&B.Tech.)

Date -09/12/22

The CA-II test for T.Y. and B.Tech. is scheduled On 16th December 2022. In this regard all the staff are here by informed that, they have to submit their CA-II TEST question paper in prescribed format(hard copy 2 set) to Exam co-ordinator on or **before 13th December 2022** 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


Prof. J. S. Mevekari

HOD
Civil Engineering

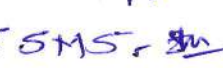
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Somwar Peth, Panchala, Dist. Kolhapur. (416 201)

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Date -09/12/22

NOTICE

CA-II Test

T.Y. and B.Tech.

All Third year and final year engineering students are hereby informed that **CA-II Test** is scheduled on **16th December 2022**. Kindly take a note of following.

Attendance is mandatory


(C.A.-C.Tho Kc)
(Exam co-ordinator)

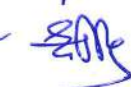
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Sanjeevan Knowledge City, Somwar Peth-Injale, Pandhri, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone: 9146999500

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

CA-II TIME TABLE 2022-2023

DATE	TIME	T.Y.	B.Tech
16/12/22	10:00AM To 10:30AM	DSS	DCS-II
	10:40AM To 11:10AM	SM-II	PP
	11:20AM To 11:50AM	GT	IE
	12:00 To 12:30PM	CT	WRE
	2:15PM To 2:45PM	PM	EQ
	3:00PM To 3:30PM	MTE	CT

Dept. Exam. Incharge

(A.C. Thoke)

HOD

Civil Engineering

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

EPS -

APM -

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DTE Code : **EN6315**

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

ENGINEERING & TECHNOLOGY INSTITUTE, PANCHALA

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Pin-416 201 (Maharashtra) Phone : 91-46899590

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-II TIME TABLE 2022-2023				
SEATING ARRANGEMENT				
DATE	CLASS	A106	A107	A108
16/12/22	T.Y.	1 To 35	36 To 62	-
	B.Tech.	-	1 To 35	36 To 58

Dept. Exam. Incharge

(A-C. Thoke)


HOD
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Sanjeevan Engineering & Technology Institute
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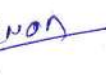
EPS - 

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

**CA-II TIME TABLE 2022-2023
SUPERVISION CHART**

DATE	TIME	A106	A107	A108
16/12/22	10:00AM To 10:30AM	Prof. Dhende A. N.	Prof. Chavan S.S.	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof. Dhende A. N.	Prof. Chavan S.S.	Prof. Gavade J.J.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Gavade J.J.	Prof. Dhende A. N.
	12:00 To 12:30PM	Prof. Salokhe E.P.	Prof. Dhende A. N.	Prof. Momin A.M.
	2:15PM To 2:45PM	Prof. Salokhe E.P.	Prof. Chavan S.S.	Prof. Dhende A. N.
	3:00PM To 3:30PM	Prof. Gavade J.J.	Prof. Salokhe E.P.	Prof. Dhende A. N.

Dept. Exam. Incharge

(A.C. Tho Ke)

HOD

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

EPs - my
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DTE Code : **EN6315**



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AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
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NOTICE

CA-II TEST

(S.Y)

Date -27/01/23

The CA-II test for S.Y. is scheduled On **03rd February 2023**. In this regard all the staff are here by informed that , they have to submit their CA-II TEST question paper in prescribed format(hard copy 2 set) to Exam co-ordinator on or **before 31st January 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


Prof. J. S. Mevekari

HOD
Civil Engineering

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

1 EPS - 

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DTE Code: **EN6315**



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AISHE Code : C-11105

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

All the Students are hereby informed that, CA-II is
schedule on 03 February 2023. Time Table is
given in follow

CA II EXAM TIME TABLE 2022-2023		
DATE	TIME	S.Y.
03/02/23	10:00AM To 10.30AM	MOS
	10:40AM To 11:10AM	HYD-I
	11:20AM To 11:50AM	BCD
	12:00 To 12:30PM	SUR
	2:15PM To 3:15PM	MIII

Dept Exam. Incharge

(A-c.Thoke)

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AMM - W
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DTE Code : **EN6315**



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AICTE ID : E-8019451
ASBE Code : C-11105

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Permanent Affiliation by Dr. Balmukund Ambekar Technological University, Raigad

CA-II TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
03/02/23	S.Y.	1 To 35	36 To 50

Dept. Exam. Incharge

(A. E. Theke)

HOD
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AMM - Am
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AND - AD
NAK - Nak
EPJ - EPJ



HOLY-WOOD ACADEMY'S
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DTE Code : **EN6315**

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

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CA-II TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
03/02/23	10:00AM To 10.30AM	Prof. Shinde S.M.	Prof. Dhende A. N.
	10:40AM To 11:10AM	Prof. Gavade J.J.	Prof. Chavan S.S.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Dhende A. N.
	12:00 To 12:30PM	Prof. Salokhe E.P.	Prof. Dhende A. N.
	2:15PM To 3:15PM	Prof. Dhende A. N.	Prof. Gavade J.J.

Dept Exam. Incharge

(A.C. Thorke)

HOD

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

EPS - ~~EPS~~

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DTE Code : **EN6315**



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AISHE Code : C-11165

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NOTICE

CA - I

T.Y. and B.Tech.

(SEM-VI,VIII)

Date -23/03/23

The **CA-I** test for T.Y. and B.Tech. Scheduled on **28th March 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 25th March 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


Prof. J.S. Mevekari

H.O.B. Civil
Civil Engineering

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

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DTE Code : **EN6315**



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AEST Code : E-11165

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All the Students are hereby informed that, CA-I is
schedule on 28 March 2023. Time Table is given in
follow

CA-I TIME TABLE 2022-2023			
DATE	TIME	T.Y.	B.Tech
28/03/23	10:00AM To 10.30AM	DCS-I	-
	10:40AM To 11:10AM	FE	MRCS
	11:20AM To 11:50AM	OR	-
	12:00 To 12:30PM	TRE	RSE
	2:15PM To 2:45PM	IWT	-
	3:00PM To 3:30PM	IC	-

Dept. Exam. Incharge

(A. C. Thole)

MOD
Civil Engineering
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Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

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DTE Code: **EN6315**



NAAC Accredited

AICTE ID : 1-5016451
ESTD CODE : 6-11301

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CA-I TERM EXAM TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
28/03/23	T.Y.	1 To 35	36 To 65
	B.Tech	1 To 35	36 To 55

Dept. Exam. Incharge

(A-c Thofe)

HOD
Civil Engineering

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DTE Code : **EN6315**

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AISHE Code : 6-11165

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-I TIME TABLE 2022-2023
SUPERVISION CHART

DATE	TIME	A106	A107
28/03/23	10:00AM To 10:30AM	Prof. Dhende A. N.	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof. Dhende A. N.	Prof. Shinde S.M.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Gavade J.J.
	12:00 To 12:30PM	Prof. Shinde S.M.	Prof. Dhende A. N.
	2:15PM To 2:45PM	Prof. Salokhe E.P.	Prof. Shinde S.M.
	3:00PM To 3:30PM	Prof. Gavade J.J.	Prof. Salokhe E.P.

Dept. Exam. Incharge

(A-C Thokur)


HOD

Civil Engineering

Sanjeevan Engineering & Technology Institute
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AMM - 

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DTE Code : **EN6315**



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AICTE ID : 1-8019451
AISHE Code : C-11105

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NOTICE

CA -I

S.Y.

(SEM-IV)

Date -24/04/23

The **CA-I** test for S.Y. Scheduled on **4th May 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 27th April 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


Prof. J.S. Mevekari

HOD
Civil Engineering

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

1 EPS

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DTE Code : **EN6315**



NAAC Accredited

AKTE ID : 1-8898451
AKSE Code : C-11865

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

All the Students are hereby informed that, CA-I is
schedule on **4 May 2023**. Time Table is given as
follow's

CA-I TIME TABLE 2022-2023		
DATE	TIME	S.Y.
04/05/23	10:00AM To 10.30AM	SM-I
	10:40AM To 11:10AM	HYD-II
	11:20AM To 11:50AM	EE
	12:00 To 12:30PM	EG
	2:15PM To 2:45PM	WRE
	3:00PM To 3:30PM	BPD

Dept. Exam. Incharge

(A.C. Thoke)

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Civil Engineering

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DTE Code: **EN6315**



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AICTE ID : 1-901903
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Phone: 914699955

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CA-I TERM EXAM TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
04/05/23	S.Y.	1 To 35	36 To 50

Dept. Exam. Incharge

(A. C. Thoke)

HOD

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DTE Code : **EN6315**



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AICTE ID : 1-8010451
ANRT Code : C-11165

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Pin- 416 201 (Maharashtra) Phone : 9146-99550

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

CA-I TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
04/05/23	10:00AM To 10.30AM	Prof. Dhende A. N.	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof. Dhende A. N.	Prof. Momin A.M.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Gavade J.J.
	12:00 To 12:30PM	Prof. Shinde S.M.	Prof. Gavade J.J.
	2:15PM To 2:45PM	Prof. Salokhe E.P.	Prof. Shinde S.M.
	3:00PM To 3:30PM	Prof. Gavade J.J.	Prof. Salokhe E.P.

Dept. Exam. Incharge

(A.C. Thoke)


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Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

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DTE Code : **EN6315**



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AISHE Code : C-11165

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NOTICE

Mid Semester Examination

T.Y. and B.Tech.

(SEM-VI,VIII)

Date -24/04/23

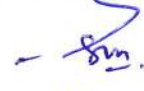
The **MSE** test for T.Y. and B.Tech. Scheduled on **2nd & 3rd May 2023**. In regard all the staff here by informed that , they have to submit their **MSE TEST** question paper hard copy 2 set Exam co-ordinator on or **before 27th April 2023** till 4 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator


Prof. A. C. Thoke

Exam co-ordinator


Prof. J.S. Mevekari


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

- 1 EPS 
- 2 SMS 
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- 4 AMM 
- 5 JJG 



DTE Code: **EN6315**



AACSB Accredited

AICTE ID : 1-6819451
MTE Code : C-31105

HOLYWOOD ACADEMY'S
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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

All the Students are hereby informed that, MSE is
schedule on **2 & 3 May 2023**. Time Table is given in
follow

MSE TIME TABLE 2022-2023			
DATE	TIME	T.Y.	B.Tech
02/05/23	10:00AM To 11:00AM	DCS-I	-
	11:30AM To 12:30PM	FE	MRCS
	02:30PM To 03:30PM	OR	RSE
03/05/23	10:00AM To 11:00AM	TRE	-
	11:30AM To 12:30PM	IWT	-
	02:30PM To 03:30PM	-	-

Dept. Exam. Incharge

(A.C. Thoke)

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NAAC Accredited

NAAC ID : 1-8009451
NAAC Code : 6-11065

HOLY-WOOD ACADEMY'S
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Pin - 416 201 (Maharashtra) Phone - 9136993291

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Permanent Affiliation by Dr. Bhausaheb Ambedkar Technological University, Raigad

MSE TERM EXAM TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
02/05/2023 & 03/05/2023	T.Y.	1 To 35	36 To 65
	B.Tech	1 To 35	36 To 55

Dept. Exam. Incharge

(A.C. Thoke)

HOD

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

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AICTE ID : I-8819451
AISSE Code : C-11165

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

MSE TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
02/05/23	10:00AM To 11:00AM	Prof. Dhende A. N.	Prof. Momin A.M.
	11:30AM To 12:30PM	Prof. Dhende A. N.	Prof. Shinde S.M.
	02:30PM To 03:30PM	Prof. Momin A.M.	Prof. Gavade J.J.
03/05/23	10:00AM To 11:00AM	Prof. Shinde S.M.	Prof. Dhende A. N.
	11:30AM To 12:30PM	Prof. Salokhe E.P.	Prof. Shinde S.M.
	02:30PM To 03:30PM	Prof. Gavade J.J.	Prof. Salokhe E.P.

Dept. Exam. Incharge

(A.C. Thote)

HOD
Civil Engineering

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Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

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JSG - JSG
EPS - EPS
SMS - SM

DTE Code : **EN6315**



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AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

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

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

NOTICE

Mid Semester Examination

S.Y.

(SEM-IV)

Date -24/05/23

The **MSE** test for S.Y. Scheduled on **1st & 2nd June 2023**. In regard all the staff here by informed that , they have to submit their **MSE TEST** question paper hard copy 2 set Exam co-ordinator on or **before 29th May 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


Prof. J.S. Mevekari

HOD

Div. of Engineering

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

- 1 EPS 
- 2 SMS 
- 3 AND 
- 4 AMM 
- 5 JJG 



DTE Code: **EN6315**



NAAC Accredited

AICTE ID : 1-6019451
AISHE Code : C-12105

ROJ V-WOOD ACADEMY'S
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All the Students are hereby informed that, **MSE** is schedule on **1 & 2 June 2023**. Time Table is given in follow

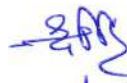
MSE TIME TABLE 2022-2023		
DATE	TIME	S.Y.
01/06/23	10:00AM To 11:00AM	SM-I
	11:30AM To 12:30PM	HYD-II
	02:30PM To 03:30PM	EE
02/06/23	10:00AM To 11:00AM	EG
	11:30AM To 12:30PM	WRE
	02:30PM To 03:30PM	BPD

Dept. Exam. Incharge

(A-C-Thoke)


HOD
Civil Engineering

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AND - 

SMS - 
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JTG - 



DTE Code: **EN6315**



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NAAC ID: 1-8019451
NAAC Code: 6-11065

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MSE EXAM TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
01/06/23	S.Y.	1 To 35	36 To 50
02/06/23		2 To 35	37 To 50

Dept. Exam. Incharge
(A.C. Thoke)

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Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

SMS - Sm
EPJ - SM

JSG - Sm
AMM - Sm

AND - AB

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AISHE Code : G-11165

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

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

MSE TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
01/06/23	10:00AM To 11:00AM	Prof. Dhende A. N.	Prof. Momin A.M.
	11:30AM To 12:30PM	Prof. Dhende A. N.	Prof. Momin A.M.
	02:30PM To 03:30PM	Prof. Momin A.M.	Prof. Gavade J.J.
02/06/23	10:00AM To 11:00AM	Prof. Shinde S.M.	Prof. Gavade J.J.
	11:30AM To 12:30PM	Prof. Gavade J.J.	Prof. Shinde S.M.
	02:30PM To 03:30PM	Prof. Dhende A. N.	Prof. Shinde S.M.

Dept. Exam. Incharge

(A.C. Thoke)

HOD
Civil Engineering

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

SPIS - *[Signature]*

AHD - *[Signature]*

JJG - *[Signature]*

AMM - *[Signature]*

EPS - *[Signature]*

DTE Code : **EN6315**



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NOTICE

CA-II Examination

T.Y. and B.Tech.

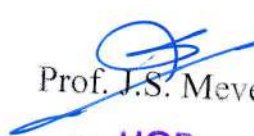
(SEM-VI,VIII)

Date -24/05/23

The **CA-II** test for T.Y. and B.Tech. Scheduled on **30th May 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 27th May 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


Prof. J.S. Mevekari

HOD Civil Engineering

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

1 EPS 

2 SMS - 

3 AND - 

4 AMM - 

5 JIG - 



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Pin-416201 (Maharashtra) Phone: (9149995500)

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All the Students are hereby informed that, CA-II is
schedule on 30 May 2023. Time Table is given as
follow's

CA-II TIME TABLE 2022-2023			
DATE	TIME	T.Y.	B.Tech
30/05/23	10:00AM To 10.30AM	DCS	-
	10:40AM To 11:10AM	FE	MRCS
	11:20AM To 11:50AM	OR	RSE
	12:00 To 12:30PM	TRE	-
	2:15PM To 2:45PM	IWT	-

Dept. Exam. Incharge

(A.C. Thoke)

HOD

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AND -

JJG -

AMM -



DTE Code : **EN6315**



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ANNE Code : 61065

HOLY-WOOD ACADEMIES
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Somwar Peth, Panhala Tal. Panhala Dist. Kolhapur
Tel: 020-24650001 Fax: 020-24650002

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-II TERM EXAM TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
30/05/23	T.Y.	1 To 35	36 To 71
	B.Tech	1 To 35	36 To 55

Dept. Exam. Incharge

(A.C. Thoke)


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AMM - 

JJG - 

AND - 

EPS - 



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DTE Code : **EN6315**

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AICTE ID : 1-9019-01
AISEE Code : C-11195

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-II TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
30/05/23	10:00AM To 10.30AM	Prof. Dhende A. N.	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof. Dhende A. N.	Prof. Shinde S.M.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Gavade J.J.
	12:00 To 12:30PM	Prof. Momin A.M.	Prof. Gavade J.J.
	2:15PM To 2:45PM	Prof. Dhende A. N.	Prof. Shinde S.M.

Dept. Exam. Incharge

(A.C. Thoke)

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Civil Engineering
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Sonawar Peth, Panchala, Dist. Kolhapur. (416 201)

AND - ~~AD~~

SMS - ~~SM~~

AMM - ~~AM~~

EPS - ~~EP~~

JJGT - ~~JJ~~

DTE Code : **EN6315**



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

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NOTICE

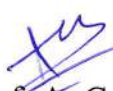
CA -II

S.Y.

(SEM-IV)

Date -20/06/23

The **CA-II** test for S.Y. Scheduled on **23rd June 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 21th June 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


Prof. J.S. Mevekari

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

1 EPS - 

2 SMS - 

3 AND - 

4 AMM - 

5 JJG - 

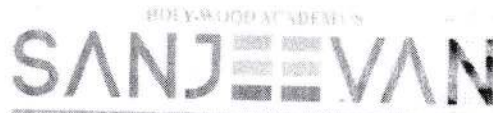


DTE Code : **EN6315**



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AICTE ID : E-889431
AISHE Code : E-11165



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All the Students are hereby informed that, CA-II is
schedule on **23 June 2023**. Time Table is given in
follow

CA-II TIME TABLE 2022-2023		
DATE	TIME	S.Y.
23/06/23	10:00AM To 10.30AM	SM-I
	10:40AM To 11:10AM	HYD-II
	11:20AM To 11:50AM	EE
	12:00 To 12:30PM	EG
	2:15PM To 2:45PM	WRE
	3:00PM To 3:30PM	BPD

Dept. Exam. Incharge

(A-C-Jhoke)


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Civil Engineering

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JJG-JS

SMS-SM

AMM-M

EPS-SM

AND-AND



DTE Code: **EN6315**



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AKTE ID : 1-8019451
AKTE Code : E-11165

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Somwar Knowledge City, Somwar Peth, Panhala, Tal. Panhala, Dist. Kolhapur
Pin-416 201 (Maharashtra) Phone: 9146998500

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Q Permanent Affiliation by Dr. Bhabubhai Ambedkar Technological University, Raigad

CA-II TERM EXAM TIME TABLE 2022-2023			
SEATING ARRANGEMENT			
DATE	CLASS	A106	A107
23/06/23	S.Y.	1 To 35	36 To 50

Dept. Exam. Incharge

(A-C-Thoke)


HOD

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

AMM - M
JTG - JS
AND - AD
SMS - S
EPS - S



DTE Code : **EN6315**



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AISHE Code : E-11165

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

CA-II TIME TABLE 2022-2023			
SUPERVISION CHART			
DATE	TIME	A106	A107
23/06/23	10:00AM To 10.30AM	Prof. Gavade J.J.	Prof. Momin A.M.
	10:40AM To 11:10AM	Prof. Gavade J.J.	Prof. Momin A.M.
	11:20AM To 11:50AM	Prof. Momin A.M.	Prof. Gavade J.J.
	12:00 To 12:30PM	Prof. Momin A.M.	Prof. Gavade J.J.
	2:15PM To 2:45PM	Prof. Gavade J.J.	Prof. Momin A.M.
	3:00PM To 3:30PM	Prof. Gavade J.J.	Prof. Momin A.M.

Dept.Exam. Incharge
(A-C-ThoKe)

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Sanjeevan Engineering & Technology Institute
Sonwar Peth, Panchala, Dist. Kolhapur. (416 201)

JJG-JS
AMM - JS
EPS - JS
SMS - JS

AND - JS

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

10 / 10

Q.No	Question	Ans	CO	PO	Mks
1.	The slope of the stress-strain curve in the elastic deformation region is _____ a) Elastic modulus b) Plastic modulus c) Poisson's ratio d) None of the mentioned	d	1	1	1
2.	Which point on the stress strain curve occurs after the proportionality limit? a) Upper yield point b) Lower yield point c) Elastic limit d) Ultimate point	c	1	1	1
3.	The stress which acts in a direction perpendicular to the area is called _____ a) Shear stress b) Normal stress c) Thermal stress d) None of the mentioned	b	1	1	1
4.	When equal and opposite forces applied to a body, tend to elongate it, the stress so produced, is called _____ a) Shear stress b) Compressive stress c) Tensile stress d) Transverse stress	c	1	1	1
5.	Find the strain of a brass rod of length 250mm which is subjected to a tensile load of 50kN when the extension of rod is equal to 0.3mm? a) 0.025 b) 0.0012 c) 0.0046 d) 0.0014	b	1	1	1
6.	A rectangular bar of steel 50 mm x 30 mm is 1 meter long, carries a pull of 93.9 KN, find the tensile stress in bar, strain and change in length. Take E= 200 GPa		1	1	5

$$6 = \frac{4P}{\pi d^2}$$

S.S. Chavan

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DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE

Sanjeevan Engineering & Technology Institute, Panhala

Department of Civil Engineering

Mid Semester Examination 2022-23

seti

SEMESTER: III

ACADEMIC YEAR: 2022-23

NAME of STUDENT:

PRN.:

CLASS: S.Y. B. Tech.

Time : 1 hour

DAY & DATE: Monday 13/02/2023

Marks: 20

BTCVES302 Mechanics of Solids

Instructions to the Students:

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

Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following	4×1 = 4			
	a.	Which point on the stress strain curve occurs after the proportionality limit? a) Upper yield point b) Lower yield point c) Elastic limit d) Ultimate point	1		BL1	1
	b.	Which is the best answer for the stress-strain curve? a) It is the percentage of stress and strain b) It is the relationship between stress and strain c) It is the difference between stress and strain d) None of the mentioned	1		BL2	1
	c.	How would you organize a) Elastic limit b) Ultimate point c) Breaking point d) Lower strain point	1		BL3	1
	d.	What conclusion can you draw if E and G represents the moduli of elasticity and shear of a material respectively, which of the following is not a possible relation a) $E = 3G$ b) $E = 2G$ c) $E < G$ d) $E = G$	1		BL4	1



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Sanjeevani Engineering & Technology Institute, Pannala

Department of Civil Engineering

Mid Semester Examination 2022-23

seti
Sanjeevani Engineering & Technology Institute

SEMESTER: III

ACADEMIC YEAR: 2022-23

NAME of STUDENT:

PRN.:

CLASS: S.Y. B. Tech.

Time : 1 hour

DAY & DATE: Monday 13/02/2023

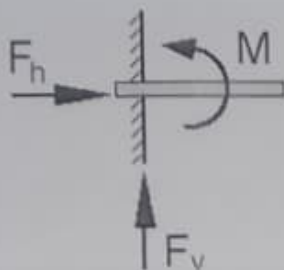
Marks: 20

BTCVES302 Mechanics of Solids

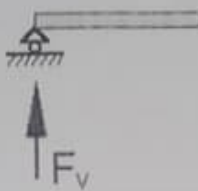
Instructions to the Students:

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

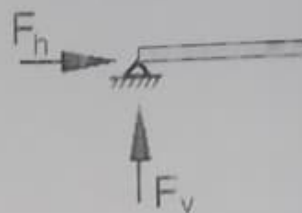
Question No.	Sub Question	Question	CO	PO	BL	Marks
1.		Attempt the Following	4×1 = 4			
	a.	Which point on the stress strain curve occurs after the proportionality limit? a) Upper yield point b) Lower yield point c) Elastic limit d) Ultimate point	1	C	BL1	1
	b.	Which is the best answer for the stress-strain curve? a) It is the percentage of stress and strain b) It is the relationship between stress and strain c) It is the difference between stress and strain d) None of the mentioned	1	B	BL2	1
	c.	How would you organize a) Elastic limit b) Ultimate point c) Breaking point d) Lower strain point	1	C	BL3	1
	d.	What conclusion can you draw if E and G represents the moduli of elasticity and shear of a material respectively, which of the following is not a possible relation a) $E = 3G$ b) $E = 2G$ c) $E < G$ d) $E = G$	1	C	BL4	1



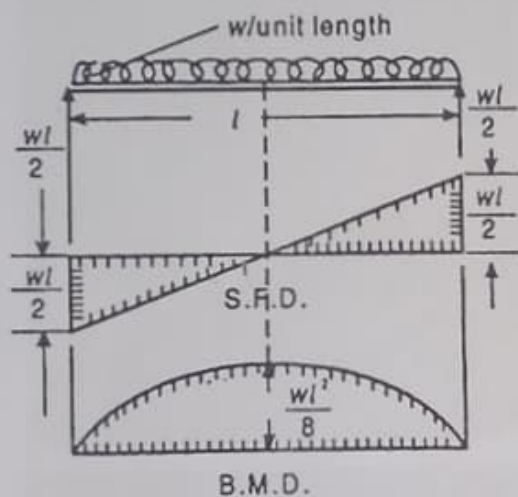
(a) fixed or built in



(b) roller bearing

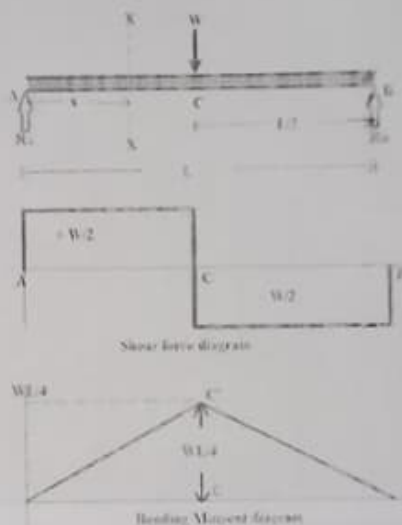


(c) pinned or hinged



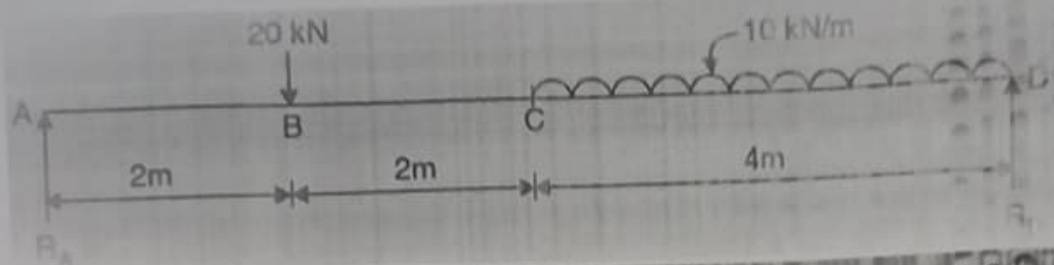
Simply supported beam
with a U.D.L.

S.S. Chohan



HOD
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Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

Principal
PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala, Dist. Kolhapur. (MS)



SFD & BMD

Step 1 Calculate R_A & R_D

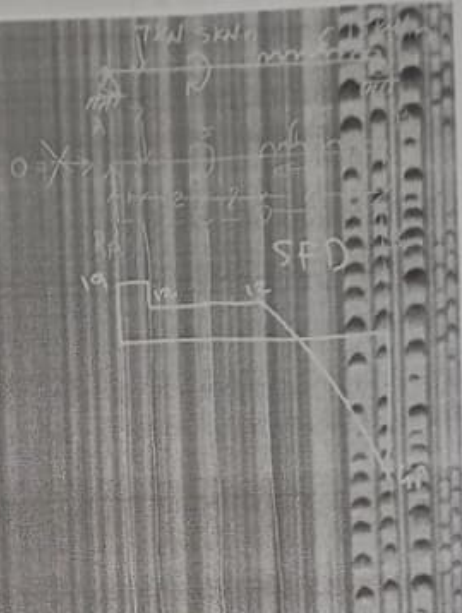
$$\sum F_y = 0 \quad R_A + R_D = 20 + 15 \times 4 = 67 \text{ kN}$$

$$\sum M_A = 0 \Rightarrow 20 \times 2 + 15 \times 4 \times \left(\frac{4}{2} + 2\right) - R_D \times 6 = 0$$

$$9R_D = 432$$

$$R_D = 432/9 = 48 \text{ kN}$$

$$R_A = 67 - 48 = 19 \text{ kN}$$



SFD & BMD

Step 1 Calculate R_A & R_D

Step 2 Calculating BMD

$$BMA = 0$$

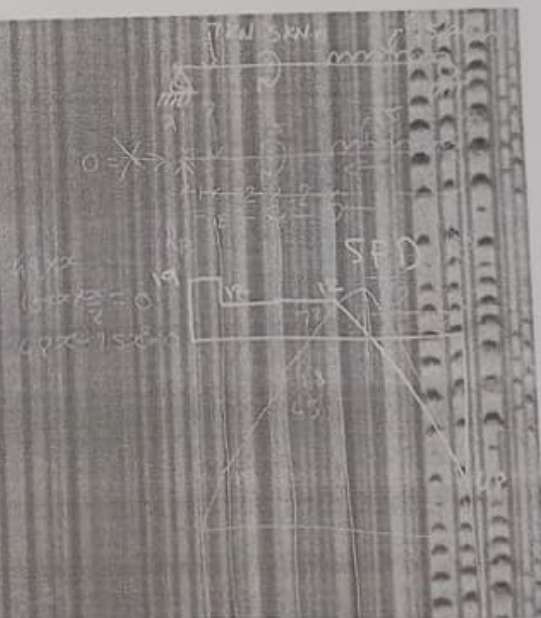
$$BMA = 0$$

$$BME = 19 \times 2 = 38 \text{ kNm}$$

$$BMC = 19 \times 3 - 7 \times 2 = 43 \text{ kNm}$$

$$BMC = 43 + 5 = 48 \text{ kNm}$$

$$BMD = 19 \times 5 - 7 \times 4 + 5 = 72 \text{ kNm}$$



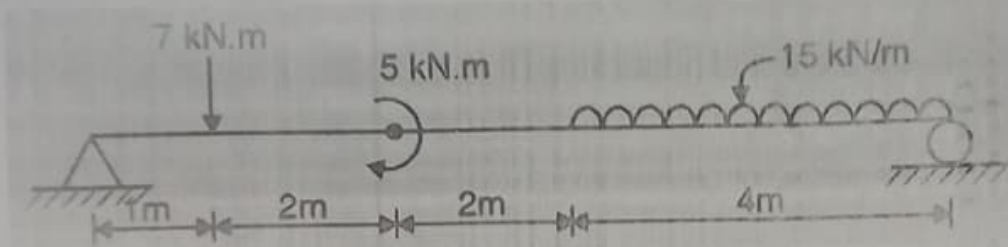
Sharon
S.S. Choren

HOD
Civil Engineering

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Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

PRINCIPAL

Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala, Dist. Kolhapur. (M.S.)



Step 4: Calculating Bending Moment

$$M_A = 0$$

$$M_B = R_A \times 2 = 25 \times 2 = 50 \text{ kN}$$

$$M_C = +R_A \times 4 - 20 \times 2 = 60 \text{ kN}$$

$$M_D = R_A \times 6 - 20 \times 4 - 10 \times 2 = 50 \text{ kN}$$

Maximum Bending Moment

$$M_{0.5} = 25 \times 4.5 - 20 \times 2.5 - 10 \times 0.5 \times 0.5 = 61.25 \text{ kN}$$

Part of the figure is $\frac{1}{2}$
 $\frac{1}{2} = \frac{R_A}{2}$
 $20 \times 2 = 35 \times 2$
 $20 \times 35 \times 2$
 $20 \times 20 \times 2$
 $x = 0.5$



Step 5: Calculate Reactions

$$R_A + R_D = 20 + 10 \times 4 = 60 \text{ kN}$$

$$\sum M_A = 0 = 20 \times 2 + 10 \times 4 \times 5 - R_D \times 6$$

$$3R_D = 280$$

$$R_D = 280/3 = 35 \text{ kN}$$

$$R_A = 60 - 35 = 25 \text{ kN}$$

Drawing SFD



S. Chinn

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 Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

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 Sanjeevan Engg. & Tech. Institute
 Somwar Peth, Panhala, Dist. Kolhapur. (MS)

Name of the Student: Ganditkar Sandhya Apparao

Class: SY Civil Roll No.: 01

Subject: Mechanics of Solids Date: 10/11/2022

Language of Answer: English

Question No.	1	2	3	4	5	6	7	8	9	10	Total	out of	Examiner's Sign.
Marks obtained	4	6	3								13	20	

Main Answersheet + No. of Supplement = Total

01

+

=

Supervisor's Signature

Q.1.

a. Which point on the stress strain curve occurs after the proportionality limit?

→ c) Elastic limit.

b. Which is the best answer for the stress-strain curve?

→ b) It is the relationship between stress and strain.

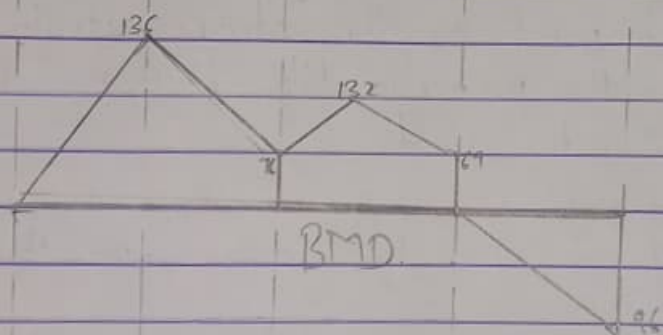
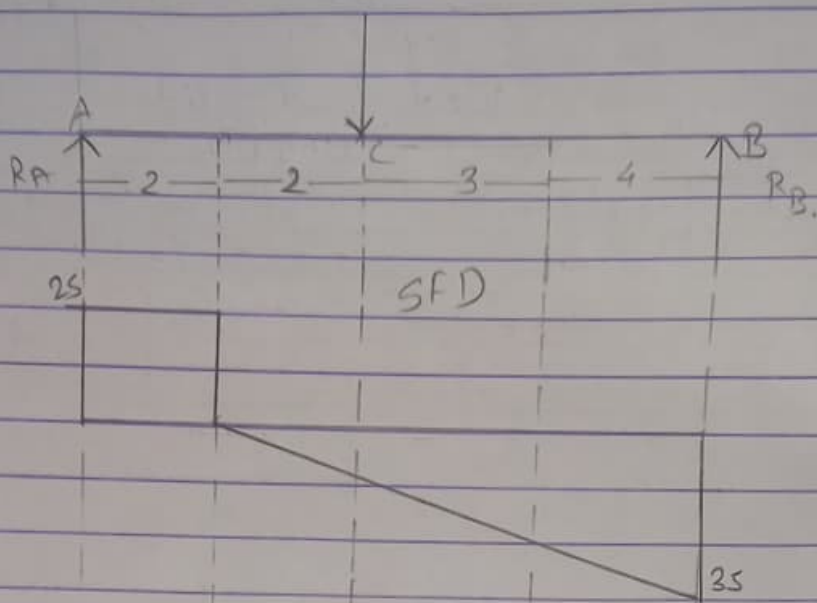
c. How would you organize 4

→ c) Breaking point.

d. What conclusion can you draw if E and G represents the moduli of elasticity and shear of a material respectively, which of the following is not possible relation.

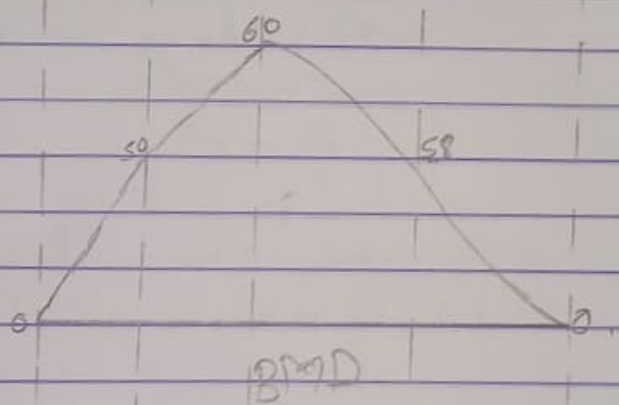
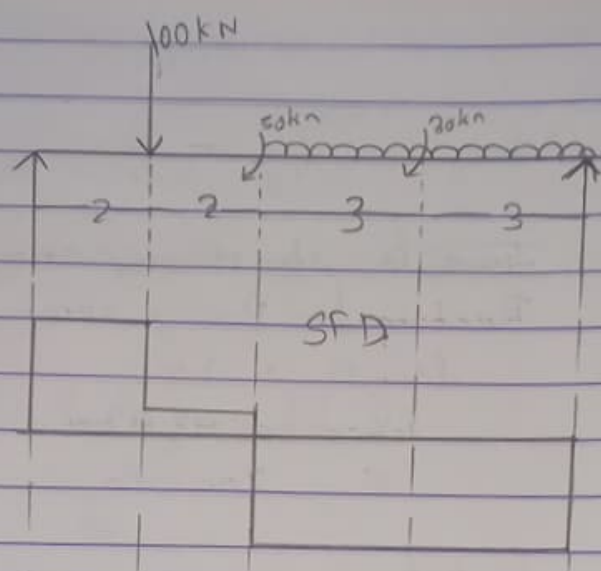
→ a) $E < G$

Q2. b.)



3

C.



3

Q3.

9. Given.

Tensile stress = $50\text{mm} \times 30\text{mm}$

Rectangular Bar = $50\text{mm} \times 30\text{mm}$

length = 1m

force = 93.9kN

$E = 200\text{GPa}$

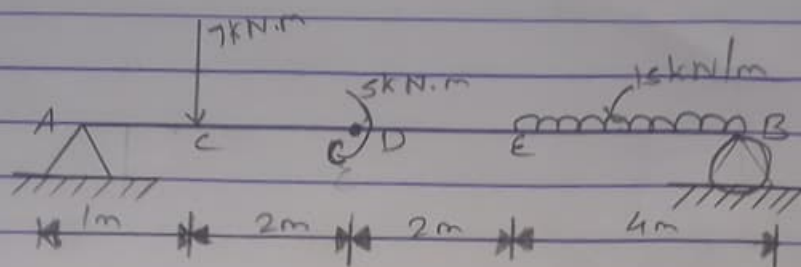
To calculate:- Tensile stress

strain

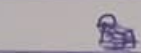
Change in length

$\therefore$ Change in length = 13.32

Q 3
c.)



① Calculate reactions.



$$\sum M_A = 0$$

$$= 7 \times 1 + 5 \times 15 + R_B \times 9$$

$$= 89 + R_B \times 9$$

$$9R_B = 89$$

$$R_B = \frac{89}{9}$$

$$R_B = 9.8$$

$$R_A = 89 - 9.8$$

F

3
2

② Calculating Bending Moment

$$BMA = 0$$

$$BM_{AL} = 0$$

$$BM_{CL} = 7 \times 1 = 7$$

$$BMC = \text{---} 11 \text{---}$$

$$BMDL =$$

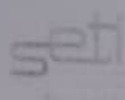
S. S. Chavan



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Civil Engineering
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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

Subject - Mechanics of Solids (BTCVES 302)

Marks - 10

Date - 15/02/2023

Time - 1 Hour

Name of Student

Roll No.

PRN No.

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

Q. No	Question	Ans	CO	PO	Mks
1.	1) Bending stresses are zero at _____ a) upper layer b) bottom layer c) neutral axis d) none of the above		1	1	1
2.	2) For cantilever beam subjected to load, compressive stresses are developed in _____ a) upper layer b) bottom layer c) neutral axis d) none of the above		1	1	1
3.	3) When beam is subjected to bending, neutral axis _____ a) shortened b) elongated c) twisted d) neither shortened nor elongated		1	1	1
4.	4) Flexure formula is given by _____ a) $M/I = \sigma/y = E/R$ b) $M/y = \sigma/y = E/R$ c) $M/I = \sigma/R = E/y$ d) $M/R = \sigma/y = E/I$		1	1	1
5.	5) Rankin's Gordon formula is applicable to a a) Long column b) Medium column c) Short column d) None		1	1	1
6.	6) Euler's formula is applicable to a a) Long column b) Medium c) Short column d) None		1	1	1
7.	7) Column with both ends fixed, the equivalent length is a) $L_e = L$ b) $L_e = L/2$, c) $L_e = L/\sqrt{2}$ d) None		1	1	1
8.	8) Column with one end fixed & other hinged, the equivalent length is a) $L_e = L$ b) $L_e = L/2$, c) $L_e = L/\sqrt{2}$ d) None		1	1	1
9.	9) Mohr's Circle represents _____ a) the endurance limit to fatigue failure b) the state of stress at a point on an oblique plane c) the area of multiple circles d) the lattice planes of the crystal		1	1	1
10	10) The radius of Mohr's circle is equal to _____ a) σ_x b) τ_{max} c) σ_y d) $(\sigma_x + \sigma_y)/2$		1	1	1

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

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

Q. No	Question	Ans	CO	PO	Mks
1.	1) Bending stresses are zero at _____ a) upper layer b) bottom layer c) neutral axis d) none of the above	C	1	1	1
2.	2) For cantilever beam subjected to load, compressive stresses are developed in _____ a) upper layer b) bottom layer c) neutral axis d) none of the above	B	1	1	1
3.	3) When beam is subjected to bending, neutral axis _____ a) shortened b) elongated c) twisted d) neither shortened nor elongated	D	1	1	1
4.	4) Flexure formula is given by _____ a) $M/I = \sigma/y = E/R$ b) $M/y = \sigma/y = E/R$ c) $M/I = \sigma/R = E/y$ d) $M/R = \sigma/y = E/I$	A	1	1	1
5.	5) Rankin's Gordon formula is applicable to a a) Long column b) Medium column c) Short column d) None	C	1	1	1
6.	6) Euler's formula is applicable to a a) Long column b) Medium c) Short column d) None	A	1	1	1
7.	7) Column with both ends fixed, the equivalent length is a) $L_e = L$ b) $L_e = L/2$, c) $L_e = L/\sqrt{2}$ d) None	B	1	1	1
8.	8) Column with one end fixed & other hinged, the equivalent length is a) $L_e = L$ b) $L_e = L/2$, c) $L_e = L/\sqrt{2}$ d) None	C	1	1	1
9.	9) Mohr's Circle represents _____ a) the endurance limit to fatigue failure b) the state of stress at a point on an oblique plane c) the area of multiple circles d) the lattice planes of the crystals	B	1	1	1
10	10) The radius of Mohr's circle is equal to _____ a) σ_x b) τ_{max} c) σ_y d) $(\sigma_x + \sigma_y)/2$	D	1	1	1

S. S. Chavhan

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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

Subject - Mechanics of Solids (BTEVE5 302)

Marks - 10

Date - 13/02/2023

Time - 1 Hour

Name of Student Saurabh D. PadawaleRoll No. 50

PRN No.

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

Q. No	Question	Ans	CO	PO	Mks
1.	1) Bending stresses are zero at _____ a) upper layer b) bottom layer c) neutral axis d) none of the above	C	1	1	1
2.	2) For cantilever beam subjected to load, compressive stresses are developed in ____ a) upper layer b) bottom layer c) neutral axis d) none of the above	b	1	1	1
3.	3) When beam is subjected to bending, neutral axis _____ a) shortened b) elongated c) twisted d) neither shortened nor elongated	d	1	1	1
4.	4) Flexure formula is given by _____ a) $M/I = \sigma/y = E/R$ b) $M/y = \sigma/y = E/R$ c) $M/I = \sigma/R = E/y$ d) $M/R = \sigma/y = E/I$	a	1	1	1
5.	5) Rankin's Gordon formula is applicable to a a) Long column b) Medium column c) Short column d) None	c	1	1	1
6.	6) Euler's formula is applicable to a a) Long column b) Medium c) Short column d) None	a	1	1	1
7.	7) Column with both ends fixed, the equivalent length is a) $L_e = L$ b) $L_e = L/2$, c) $L_e = L/\sqrt{2}$ d) None	b	1	1	1
8.	8) Column with one end fixed & other hinged, the equivalent length is a) $L_e = L$ b) $L_e = L/2$, c) $L_e = L/\sqrt{2}$ d) None	C	1	1	1
9.	9) Mohr's Circle represents _____ a) the endurance limit to fatigue failure b) the state of stress at a point on an oblique plane c) the area of multiple circles d) the lattice planes of the crystal	b	1	1	1
10	10) The radius of Mohr's circle is equal to _____ a) σ_x b) τ_{max} c) σ_y d) $(\sigma_x + \sigma_y)/2$	d	1	1	1

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Website : www.seti.edu.in Email : principal@seti.edu.in / office@seti.edu.in

EN 6318

Academic Calendar for SY, TY & B.Tech Odd Semester (Academic Year - 2022-2023)

Month	Week No.	Week Days							No. of working days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
Sep-22	1				1	2	3	4	2	Student Internship
	2	5	6	7	8	9	10	11	6	10 - Principal Address & Commencement Meeting (NBA)
	3	12	13	14	15	16	17	18	5	12 - Reporting to office & Commencement of Academics 12 to 17 - GTT Training
	4	19	20	21	22	23	24	25	6	15 - Engineers Day Celebration, FY Bridge Course
	5	26	27	28	29	30			5	24 - Department Association Inauguration
Oct-22	6						1	2	0	28 - Student Categorization(Week, Average, Bright) 29, 30 - CA I
	7	3	4	5	6	7	8	9	5	02 - Mahatma Gandhi Jayanti
	8	10	11	12	13	14	15	16	5	05 - Dasara, 8 - Parents Teachers Meet, 9 - Id-E-Milad 8, 22, 29 - Dept. Level / NSS Activity, GATE Awareness Programme
	9	17	18	19	20	21	22	23	6	14 - Feedback from Students
	10	24	25	26	27	28	29	30	3	19 to 21 - MSE, 22 - Central NBA Review
	11	31							1	24 & 26 - Dipawali, 29 - Project Phase I Progress Report
Nov-22	12		1	2	3	4	5	6	4	31 - Display of MSE Marks
	13	7	8	9	10	11	12	13	5	1 to 8 - Exam Form Filling for Regular & Supplementary Examinations
	14	14	15	16	17	18	19	20	5	08 - Guru Nanak Jayanti
	15	21	22	23	24	25	26	27	6	12, 26 - Dept. Level / NSS Activity, 12 - Central NBA Review
	16	28	29	30					3	9 to 15 - Exam form filling with Late fee, 17 to 19 - University Tech fest
	17				1	2	3	4	2	26 - Project Phase I Progress Presentation
Dec-22	18	5	6	7	8	9	10	11	6	30 - Feedback from Students
	19	12	13	14	15	16	17	18	5	1 & 2 - CA II
	20	19	20	21	22	23	24	25	1	10 - Department Level / NSS Activity & Parents Teachers Meet
		26	27	28	29	30	31			
Jan-23								1		
		2	3	4	5	6	7	8		
		9	10	11	12	13	14	15		26th December 2022 to 21st January 2023 - End Semester Regular & Supplementary Examinations
		16	17	18	19	20	21	22		
		23	24	25	26	27	28	29		26th Jan - Republic Day, 28 - NBA Review- Dept. Presentation
Feb-23				1	2	3	4	5		
		6	7	8	9	10	11	12		1st February 2023 to 31st May 2023 - Academic Year 2022-23 Even Semester
		13	14	15	16	17	18	19		11 - NBA Review- Dept. Presentation
		20	21	22	23	24	25	26		
		27	28							21st February to 3rd March 2023 - Remedial Examinations
Total Working Days/110									81	
Govt. Holiday		Activities			Internal/ Practical Exam			Holiday		

Prepared by
Mr. P. P. Kulkarni

Principal





SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA
 Sanjeevan Engineering & Technology Institute, Panhala, Dist. Solapur, Maharashtra - 431 122
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Academic Calendar Even Semester (Academic Year: 2022-2023)

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28						2	27 - Commencement of Semester VI & VIII
MARCH			1	2	3	4	5	3	
	6	7	8	9	10	11	12	5	07 - Dhulivandan
	13	14	15	16	17	18	19	5	13 - Commencement of Semester IV
	20	21	22	23	24	25	26	5	22 - Gudhi Padwa
	27	28	29	30	31			4	27-29 - CA-I For Sem VI & VIII, 30- Ran Navami
APRIL						1	2	0	
	3	4	5	6	7	8	9	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	10	11	12	13	14	15	16	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	17	18	19	20	21	22	23	5	19-21- MSE Sem VI & VIII, 22 - Ramzan-Id
	24	25	26	27	28	29	30	5	28- Parent Meet for Sem VI & VIII
MAY	1	2	3	4	5	6	7	3	01- Maharashtra Din, 02-03- CA-I For Sem II, 05- Buddha Pournima
	8	9	10	11	12	13	14	6	08-10- CA-II Exam Sem VI & VIII
	15	16	17	18	19	20	21	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester
	22	23	24	25	26	27	28	6	25-27 - Practial/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
	29	30	31					3	29 May- 02 June- MSE For Sem II
JUNE				1	2	3	4	2	29 May- 02 June- MSE For Sem II
	5	6	7	8	9	10	11	6	10- Parent Meet for Sem II
	12	13	14	15	16	17	18	5	12-23 ESE For Sem VI & VIII
	19	20	21	22	23	24	25	6	12-23 ESE For Sem VI & VIII
	26	27	28	29	30			4	28- Bakri Id, 29-30- CA-II For Sem II & IV
JULY						1	2	0	
	3	4	5	6	7	8	9	6	8- End of II & IV Semester
	10	11	12	13	14	15	16	5	09-10-Practial/Project/ Seminar Exam For Sem II & IV
	17	18	19	20	21	22	23	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	24	25	26	27	28	29	30		29- Moharum
	31								29 August- Result Declaration ESE For Sem II & IV
Govt. Holiday								105	17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V

Note: 1. The above dates are subject to change as per the guidelines of regulating authorities.
 2. Each Department shall prepare their separate calendar to reflect departmental activities & IV, Student Intership

Prepared By

Academic Dean

Vice Principal

Principal

DTE Code : EN6315



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ASISE Code : C-1195HOLY WOOD ACADEMY'S
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ENGINEERING & TECHNOLOGY INSTITUTE, PANCHALA

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Pin- 416 201 (Maharashtra) Phone : 91 46099550Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra & DTE
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad**Vision- SETI to educate to excel in social transformation****Automobile Engineering Department Academic Calendar Even Semester
(Academic Year: 2022-2023)**

Month	Week Days							working days	Events
	MON	TUE	WED	THUR	FRI	SAT	SUN		
FEB			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28							
MARCH			1	2	3	4	5	2	27 - Commencement of Semester VI & VIII
	6	7	8	9	10	11	12	3	
	13	14	15	16	17	18	19	5	07 - Dhulivandan
	20	21	22	23	24	25	26	5	13 - Commencement of Semester IV
	27	28	29	30	31			5	22 - Gudhi Padwa
APRIL						1	2	4	27-29 - CA-I For Sem VI & VIII, 30- Ran Navami
	3	4	5	6	7	8	9	0	
	10	11	12	13	14	15	16	4	03 - Commencement of Sem II, 04- Mahaveer Jayanti, 5-6- CA-I For Sem IV, 07 - Good Friday, 07-10 - Annual Sports
	17	18	19	20	21	22	23	4	12- Parikrama, 13- Annual Social Gathering, 14 - Dr. Ambedkar Jayanti
	24	25	26	27	28	29	30	5	19-21- MSE Sem VI & VIII, 22 - Ramzan-Id
MAY	1	2	3	4	5	6	7	5	28- Parent Meet for Sem VI & VIII
	8	9	10	11	12	13	14	3	01- Maharashtra Din, 02-03- CA-I For Sem II, 05- Buddha Pournima
	15	16	17	18	19	20	21	6	08-10- CA-II Exam Sem VI & VIII Project Presentation -12
	22	23	24	25	26	27	28	5	17-19 - MSE For Sem IV, 19- End of VI & VIII Semester
	29	30	31					6	25-27 - Practical/Project/ Seminar Exam For Sem VI & VIII, 27- Parent Meet for Sem IV
JUNE				1	2	3	4	3	29 May- 02 June- MSE For Sem II
	5	6	7	8	9	10	11	2	29 May- 02 June- MSE For Sem II
	12	13	14	15	16	17	18	6	10- Parent Meet for Sem II
	19	20	21	22	23	24	25	5	12-23 ESE For Sem VI & VIII
	26	27	28	29	30			6	12-23 ESE For Sem VI & VIII
JULY						1	2	4	28- Bakri Id, 29-30- CA-II For Sem II & IV
	3	4	5	6	7	8	9	0	
	10	11	12	13	14	15	16	6	8- End of II & IV Semester
	17	18	19	20	21	22	23	5	09-10-Practical/Project/ Seminar Exam For Sem II & IV
	24	25	26	27	28	29	30	6	20-29 - ESE For Sem-II & IV, 22- Result Declaration ESE For Sem VI & VIII
	31								29- Moharum
Govt. Holiday									29 August- Result Declaration ESE For Sem II & IV
Activities								105	17-July Commencement of Classes for Next semester for Sem VII & 1st August 2023 for Sem III & V

Note: 1. The above dates are subject to change as per the guidelines of regulating authorities.
2. Each Department shall prepare their separate calendar to reflect departmental activities & IV, Student Internship

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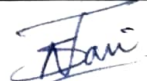
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Somwar Peth, Panchala - 416 201

Automobile Engineering Department Academic Calendar Odd Semester (Academic Year - 2022-2023)

Month	Week No.	Week Days							No. of working days	Events
		MON	TUE	WED	THUR	FRI	SAT	SUN		
September	1				1	2	3	4	2	Student Interenship
	2	5	6	7	8	9	10	11	6	
	3	12	13	14	15	16	17	18	5	GTT Training week
	4	19	20	21	22	23	24	25	6	Project Group Formation and Guid Allotment
	5	26	27	28	29	30			5	29 to 30- CA-I
October	6						1	2	0	02nd Oct - Mahatma Gandhi Jayanti
	7	3	4	5	6	7	8	9	5	05th Oct - Dasara, 9th Oct - Id-E-Milad, 8- Guest Lecturers
	8	10	11	12	13	14	15	16	5	14- Feedback From Students
	9	17	18	19	20	21	22	23	6	19 to 21 - MSE
	10	24	25	26	27	28	29	30	3	NAAC Review Meeting
	11	31							1	31 - Display of MSE Marks
November	12		1	2	3	4	5	6	4	
	13	7	8	9	10	11	12	13	5	9-11 Industrial Visit, 8th Nov - Guru Nanak Jayanti
	14	14	15	16	17	18	19	20	5	
	15	21	22	23	24	25	26	27	6	15th Nov to 24th Nov - Mid Semester Examination
	16	28	29	30					3	Seminar Presentation
December	17				1	2	3	4	2	Project Presentation
	18	5	6	7	8	9	10	11	6	NAAC Review Meeting , 10 - Parents Meet
	19	12	13	14	15	16	17	18	5	19- End of Classes, 20-23- Practical Exam
	20	19	20	21	22	23	24	25	1	22-24th Dec - Upload Int/Pr Marks, 25th Dec - Christmas Day
		26	27	28	29	30	31			
January								1		
		2	3	4	5	6	7	8		26th Dec 22- 21 Jan-23 - End Sem Exam Regular Exam
		11	10	11	12	13	14	15		
		16	17	18	19	20	21	22		
		23	24	25	26	27	28	29		26 - Republic Day
February		30	31							NAAC Review Meeting
				1	2	3	4	5		Survey Project
		6	7	8	9	10	11	12		
		13	14	15	16	17	18	19		19th Feb - Shivaji Maharaj Jayanti
		20	21	22	23	24	25	26		21st Feb to 3rd March - Remedial Examination
		27	28							
Total Working Days									81	
Govt. Holiday		Activities			Internal/Practical Exam			Holiday		


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Website : www.seti.edu.in Email : principal@seti.edu.in / office@seti.edu.in **EN 6315**

Department of Automobile Engineering

Academic year 2022-23

Notice

Date: 15/10/2022

All the student of Final year B.Tech Automobile Engineering are here by informed that their DBATU CA-I test is scheduled on 17th OCT to 18th OCT 2022.


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EN 6315

Department of Automobile Engineering

Academic year 2022-23

Notice

Date: 15/10/2022

DBATU CA-I test Time Table

Date	Time	Subject
17/10/22	10.00 am to 11.00 am	Automotive air conditioning
	12.00 pm to 1.00 pm	Vehicle performance and testing
	2.00 pm to 3.00 pm	Finite element method
18/10/22	10.00 am to 11.00 am	Knowledge management
	12.00 pm to 1.00 pm	Automotive emission and control



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-I Test Semester- VII -2022-23

Subject: Automotive Emission and Control

Date –

Marks & Duration – 10 & 1hrs

Attempt any two questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	What are the sources of pollutant in automobile?	CO1	BL1	PO1	05
Q-2	What are the regulations made by Indian government in IC engine pollutant?	CO1	BL1	PO2	05
Q-3	Differentiate Euro and Bharat stage norms applied to the IC engine pollutants.	CO1	BL3	PO2	05
Q-4	Discuss effect of operating variable on emission formation	CO2	BL3	PO2	05

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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-I Test Semester- VII -2022-23

Subject: Automotive Emission and Control

Date –

Marks & Duration – 10 & 1hrs

Attempt any two questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	What are the sources of pollutant in automobile?	CO1	BL1	PO1	05
Q-2	What are the regulations made by Indian government in IC engine pollutant?	CO1	BL1	PO2	05
Q-3	Differentiate Euro and Bharat stage norms applied to the IC engine pollutants.	CO1	BL3	PO2	05
Q-4	Discuss effect of operating variable on emission formation	CO2	BL3	PO2	05

Department of Automobile Engrg.,
DBATU - CA-I Test - Sem. VII - 2022-23
Subject - Automotive Emission & Control.
Model Answer & Marking Scheme.

- Q-1 Source of pollutant in Automobile
and its Explanation — 05 m.
- Q-2 Bharat stage Regulations made by
Indian Government - explanation — 05 m
- Q-3 Difference b/w Bharat stage & Euro
norms for I.C. engine — 05 m
- Q-4 different variable ~~are~~ affecting
emission formation — 05 m

SE ✓
S. B. Sathar

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Department of Automobile Engineering

Academic year 2022-23

Notice

Date: 8/11/2022

All the student of Final year B.Tech Automobile Engineering are here by informed that their DBATU Mid semester test is scheduled on 10th NOV to 12th NOV 2022.



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AUTOMOBILE ENGINEERING**
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Department of Automobile Engineering

Academic year 2022-23

Notice

Date: 8/11/2022

DBATU Mid Semester test Time Table

Date	Time	Subject
10/11/22	10.00 am to 11.00 am	Automotive air conditioning
	12.00 pm to 1.00 pm	Vehicle performance and testing
	2.00 pm to 3.00 pm	Finite element method
11/11/22	10.00 am to 11.00 am	Knowledge management
	12.00 pm to 1.00 pm	Automotive emission and control


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Subject: Vehicle Performance and Testing

Date –

Marks & Duration – 20 & 1hrs

Attempt any four questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Enlist Various testing tracks used to test the vehicle.	CO1	BL1	PO1	05
Q-2	Explain high speed track, corrugated track.	CO1	BL1	PO2	05
Q-3	Explain with neat sketch tyre wear pattern	CO1	BL2	PO2	05
Q-4	Write a note on chassis dynamometer.	CO2	BL3	PO2	05
Q-5	The coefficient of rolling resistance for a track weighing 62293.5N. Is 0.018 and coefficient of air resistance is 0.0276. The transmission efficiency in top gear is 6.2:1 is 90% and that in the second gear of 15:1 is 80%. The frontal area is 5.574 m ² . If truck have maximum speed 88 km/h in top gear calculate, i) Engine BP required ii) Maximum draw bar pull in second gear.	CO1	BL3	PO3	05

Subject: Vehicle Performance and Testing

Date –

Marks & Duration – 20 & 1hrs

Attempt any four questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Enlist Various testing tracks used to test the vehicle.	CO1	BL1	PO1	05
Q-2	Explain high speed track, corrugated track.	CO1	BL1	PO2	05
Q-3	Explain with neat sketch tyre wear pattern	CO1	BL2	PO2	05
Q-4	Write a note on chassis dynamometer.	CO2	BL3	PO2	05
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Department of Automobile Engineering

Mip - Semester Exam Sem - VII - 2023

sub :- Vehicle Performance & Testing

Q-1 List of testing track used to test the vehicle
ans (5) — 5 marks

Q-2 Explanation of
1) high speed track — 2.5 m
2) corrugated track — 2.5 m
—————
5 m.

Q-3 Explanation of tyre wear pattern — 0.5 m

Q-4 chassis dynamometer — 0.5 m.
Explanation

Q-5 Engine - Brake Power — 2.5 m
maximum draw-bar pull — 2.5 m
in second gear —————
5 marks.

SP ✓
S. P. Soodhar



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- MID Term Test Semester- VII -2022-23

Subject: Automotive Emission and Control

Date –

Marks & Duration – 20 & 1hrs

Attempt any four questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Write the mechanism of pollutant in SI engine.	CO1	BL1	PO1	05
Q-2	Explain source of pollutant from SI engine	CO1	BL1	PO2	05
Q-3	Write the ways of control engine emission.	CO1	BL2	PO2	05
Q-4	Describe effect of engine pollutant on human health.	CO2	BL3	PO2	05



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- MID Term Test Semester- VII -2022-23

Subject: Automotive Emission and Control

Date –

Marks & Duration – 20 & 1hrs

Attempt any four questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Write the mechanism of pollutant in SI engine.	CO1	BL1	PO1	05
Q-2	Explain source of pollutant from SI engine	CO1	BL1	PO2	05
Q-3	Write the ways of control engine emission.	CO1	BL2	PO2	05
Q-4	Describe effect of engine pollutant on human health.	CO2	BL3	PO2	05

Department of Automobile Engineering,
Mid Semester Examination - sem-VI - 2022-23
Subject 2 - Alternative Emission & Control.
Model Answer & Marking Scheme

Q-1 Pollutant mechanism in S.I engine — 05 marks
& Explanation

Q-2 S.I. engine pollutant sources — 05 marks
Explanation

Q-3 Ways of control engine emission — 05 marks
Explanation

Q-4 Engine Pollutant & Human health — 05 marks
issues - description

Sc
S. P. Jadhav

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Department of Automobile Engineering

Academic year 2022-23

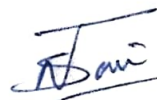
Notice

Date: 29/11/2022

All the student of Final year B.Tech Automobile Engineering are here by informed that their DBATU CA-II test is scheduled on 1st DEC to 2nd DEC 2022.



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Department of Automobile Engineering

Academic year 2022-23

Notice

Date: 29/11/2022

DBATU CA-II test Time Table

Date	Time	Subject
1/12/22	10.00 am to 11.00 am	Automotive air conditioning
	12.00 pm to 1.00 pm	Vehicle performance and testing
	2.00 pm to 3.00 pm	Finite element method
2/12/22	10.00 am to 11.00 am	Knowledge management
	12.00 pm to 1.00 pm	Automotive emission and control




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SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA
DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-II Test Semester- VII -2022-23

Subject: Vehicle Performance and Testing

Date –

Marks & Duration – 10 & 1hrs

Attempt any ^{two} ~~three~~ questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Enlist Various performance parameters of vehicle discuss two of them in detail.	CO1	BL1	PO1	05
Q-2	Write different types of resistances act on vehicle	CO1	BL1	PO2	05
Q-3	Explain with neat sketch EGR system	CO1	BL2	PO2	05
Q-4	Write the brake and tyre performance parameters in detail.	CO2	BL3	PO2	05



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-II Test Semester- VII -2022-23

Subject: Vehicle Performance and Testing

Date –

Marks & Duration – 10 & 1hrs

Attempt any ^{two} ~~three~~ questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Enlist Various performance parameters of vehicle discuss two of them in detail.	CO1	BL1	PO1	05
Q-2	Write different types of resistances act on vehicle	CO3	BL1	PO6	05
Q-3	Explain with neat sketch EGR system	CO3	BL3	PO6	05
Q-4	Write the brake and tyre performance parameters in detail.				

Automobile Engg. Department .

DBATU - CA - II Test - Semester - VII - 2022-23

Subject:- Vehicle Performance & Testing

Model Answer & marking Scheme

Q-1 vehicle performance parameters list - — 01 m.
Explanation of two parameters each — $\frac{2\text{ m}}{2\text{ m}}$
5 m.

Q-2 Different types of resistance acting on vehicle
Explanation — 05 m

Q-3 Explanation of EGR system — 3 m
Sketch of EGR system — $\frac{2\text{ m}}{2\text{ m}}$
5 m.

Q-4 Brake & tyre performance parameters
1) Brake performance parameters — 2.5 m
2) Tyre performance parameters — $\frac{2.5\text{ m}}{2.5\text{ m}}$
5 m.

SL
S P Jadhav



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Department of Automobile Engineering

Date: 24th April 2023

NOTICE

All the students of final year of Automobile Engineering Department are hereby informed that **Midterm Exam** has been **scheduled on 24th April 2023**. The Examination will be conducted by offline mode. Attendance is compulsory for all students.

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Automobile Engineering



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Department of Automobile Engineering

Date: 24th April 2023

Mid Term Exam TIMETABLE 2022- 23

Sr. No.	Day/Date	Time	Class	Subject
1	Wednesday / 26/04/2023	10.00 a.m. – 10.30 a.m.	Final Year	Material Characterization (BTAMC801D)
2		11.00 a.m. – 11.30 p.m.	Final Year	Non- Conventional Energy Resources (BTAMC801F)




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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- Mid Semester Test Semester- VIII -2022-23

Subject: Material Characterization

Date –

Marks & Duration – 20 & 1. 30 Hrs

Ques No.	Question	Marks
Q-1 a	With help of neat sketch explain SEM and state its applications.	05
Q-1 b	Write a note on X- ray scattering.	05
Q-2 a	Write construction and working details of TEM	05
Q-2b	Write the construction details of optical microscope.	05



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- Mid Semester Test Semester- VIII -2022-23

Subject: Material Characterization

Date –

Marks & Duration – 20 & 1. 30 Hrs

Ques No.	Question	Marks
Q-1 a	With help of neat sketch explain SEM and state its applications.	05
Q-1 b	Write a note on X- ray scattering.	05
Q-2 a	Write construction and working details of TEM	05
Q-2b	Write the construction details of optical microscope.	05

DBATU - MID - Sem - VIII - 2022-23

subject 1. material characterization.

Model answer & marking scheme

Q-1	Explanation of SEM	—	3m
	Applications of SEM	—	2m
			5m

Q.2 X - Scattering Explanation — 05m

Q-3 Construction details of TEM — 5m

Q-5) construction details of optical microscope - 05 m



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Department of Automobile Engineering

Date: 25th March 2023

NOTICE

All the students of final year of Automobile Engineering Department are hereby informed that CA-I Exam has been **scheduled on 28th March 2023**. The Examination will be conducted by offline mode. Attendance is compulsory for all students.



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Department of Automobile Engineering

Date: 25th March 2023

CA-I Exam TIMETABLE 2022- 23

Sr. No.	Day/Date	Time	Class	Subject
1	Tuesday / 28/03/2023	10.00 a.m. – 10.30 a.m.	BE	Material Characterization (BTAMC801D)
2		11.00 a.m. – 11.30 p.m.	BE	Non- Conventional Energy Resources (BTAMC801F)

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SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA
DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-I Test Semester- VII-2022-23

Subject: Material Characterization

Date –

Marks & Duration – 10 & 1hrs

Attempt any two questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Write a note on fundamental of optics	CO1	BL1	PO1	05
Q-2	Define the term phase contrast, polarized light	CO1	BL1	PO2	05
Q-3	Explain various imaging technique and spectroscopy	CO1	BL2	PO2	05



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-I Test Semester- VII -2022-23

Subject: Material Characterization

Date –

Marks & Duration – 10 & 1hrs

Attempt any two questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	Write a note on fundamental of optics	CO1	BL1	PO1	05
Q-2	Define the term phase contrast, polarized light	CO1	BL1	PO2	05
Q-3	Explain various imaging technique and spectroscopy	CO1	BL2	PO2	05

Department of Automobile Engg.
DBATU - CA - I - Test Sem. VIII - 2022-23
subject - Material Characterization
Model Answer & Scheme of marking

Q-1 Fundamental of optics
Explaination — 0.5 m.

Q-2 Define the term
1) phase contrast — 2.5 m
2) polarised light — 2.5 m

5 m.

Q-3 Imaging technique
spectroscopy — 2.5 m
— 2.5 m

5 m.



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Department of Automobile Engineering

Date: 29th April 2023

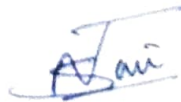
NOTICE

All the students of final year of Automobile Engineering Department are hereby informed that CA-II Exam has been **scheduled on 30 April 2023**. The Examination will be conducted by offline mode. Attendance is compulsory for all students.




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EN 6315

Department of Automobile Engineering

Date: 29th April 2023

CA-II Exam TIMETABLE 2022- 23

Sr. No.	Day/Date	Time	Class	Subject
1	Tuesday / 30/04/2023	10.00 a.m. – 10.30 a.m.	BE	Material Characterization (BTAMC801D)
2		11.00 a.m. – 11.30 p.m.	BE	Non- Conventional Energy Resources (BTAMC801F)



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-II Test Semester- VII -2022-23

Subject: Material Characterization

Date –

Marks & Duration – 10 & 1hrs

Attempt any two questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	State and explain Bragg's law	CO1	BL1	PO1	05
Q-2	How TEM is differ from SEM?	CO1	BL1	PO2	05
Q-3	Explain various imaging technique and spectroscopy	CO1	BL2	PO2	05



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DEPARTMENT OF AUTOMOBILE ENGINEERING
DBATU- CA-II Test Semester- VII -2022-23

Subject: Material Characterization

Date –

Marks & Duration – 10 & 1hrs

Attempt any two questions

Ques No.	Question	CO	BL	PO	Marks
Q-1	State and explain Bragg's law	CO1	BL1	PO1	05
Q-2	How TEM is differ from SEM?	CO1	BL1	PO2	05
Q-3	Explain various imaging technique and spectroscopy	CO1	BL2	PO2	05