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

Sr. No.	Particulars
1	Sessional Examination Notice
2	Sessional Marks
3	Sessional Question Paper (Online) Sample

Date : 15/03/2021

NOTICE

All the students of First Year Engineering Department are hereby informed that your First Sessional Examination will be started from 19/03/2021 as per the given below time table.

Instructions:-

- 1) Sessional Exam is taken on Google Form
- 2) Solve 15 MCQ's out of 20 MCQ's
- 3) Every question carries 2 marks
- 4) For any query contact your subject teacher
- 5) You have to submit the paper within given time up to 12.30 pm.

Section- A		
Subject	Date	Time
Computer Programming	19/03/2021	11:30 am to 12:30 pm
Engineering Physice	20/03/2021	11:30 am to 12:30 pm
Engineering Mechanics	21/03/2021	11:30 am to 12:30 pm
Mathematics-I	22/03/2021	11:30 am to 12:30 pm

Section- B		
Subject	Date	Time
Electrical Engineering	19/03/2021	11:30 am to 12:30 pm
Engineering Chemistry	20/03/2021	11:30 am to 12:30 pm
Engineering Drawing	21/03/2021	11:30 am to 12:30 pm
Mathematics-II	22/03/2021	11:30 am to 12:30 pm

Dr. M. B. Wary
 Sessional Incharge
 Dr. M. B. Wary

M. A. Khan
 Prof. M. A. Khan
 First Year Incharge



H. S. Patil
 Principal
 Jagadamba Collage of Engineering &
 Technology Arni Road, Kinhi, Yavatmal

JAGADAMBHA COLLEGE OF ENGINEERING AND TECHNOLOGY, YAVATMAL
B.E.FIRST YEAR, FIRST SEMISTER SESSION 2020-21

First Sessional Examination Marks

Sr.No.	Name of Student	Section	SESSIONAL FIRST				Total marks out of 120
			M-I	PHY	EM	CP	
1	AMISHA DAMESHWAR WETTI	A	28	26	30	30	114
2	YASHASHRI C GAYKI	A	30	30	30	30	120
3	SNEHA GOVIND GADHAVE	A	28	26	30	30	114
4	TEJAS RAMRAO PILLARE	A	30	26	30	30	116
5	SAKSHI SHAM SHARMA	A	24	26	26	30	106
6	RUTVIK RAJENDRA PAGRUT	A	28	30	28	22	108
7	SHRIPAD JAGDISH KHORGADE	A	30	30	30	30	120
8	SWAMINI MAHENDRA GAWANDE	A	30	30	30	30	120
9	RACHANA MADHAV INGOLE	A	30	30	26	30	116
10	SANIKA VIVEK PANDE	A	26	26	30	30	112
11	NIKITA GAJANAN INGLE	A	30	30	30	30	120
12	KHUSHI RAJENDRAKUMAR	A	30	30	30	30	120
13	ASIYA MOBINKHAN TIGALE	A	30	30	30	30	120
14	TRUPTI BHARAT BHAGAT	A	30	28	30	28	116
15	KALYANI ANIL TONCHAR	A	30	30	24	30	114
16	TRIVENI SUBHASH RATHOD	A	30	30	30	30	120
17	SAKSHITA ASHOK DHAKANE	A	24	28	30	30	112
18	ATUL SANTOSH RAHOD	A	30	30	30	30	120
19	MADHURA MANOJ PESHWE	A	30	30	30	30	120
20	CHINMAYI MUKUND TAMBULE	A	30	30	30	12	102
21	SAKSHI RAJENDRA KHANDARE	A	30	28	30	30	118
22	GAURAV NAMDEV GORLE	A	30	28	30	30	118
23	DARSHAN DILIP RATHOD	A	30	30	30	30	120
24	VISHAL SHANKARRAO	A	22	30	30	30	112
25	KETAN BABULAL NISWADE	A	28	30	30	30	118
26	NEHA SURESHRAO SARODE	A	30	30	22	30	112
27	SAMIKSHA MADHUKAR GOPAL	A	30	30	30	30	120
28	SANDHYANI KAILAS PATE	A	30	30	24	20	104
29	DIKSHA ARVIND TAYADE	A	28	30	22	30	110
30	VRUSHABH GOPAL HIWARALE	A	30	28	30	30	118
31	MAHESH HANUMAN JAISWAL	A	24	26	30	30	110



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32	ROHIT BABULAL MUDRAKE	A	26	24	22	30	102
33	BHAVIKA UKANDRAO TODSAM	A	30	24	28	30	112
34	PRATIK G KHANDWE	A	30	28	30	30	118
35	SAJAN UTTAM ADE	A	24	28	28	30	110
36	PRAJWAL VILAS DUDHE	A	30	26	26	30	112
37	PRASHANT DINESH KAPATE	A	22	30	0	30	82
38	PRANAV GAJANAN PARLAWAR	A	30	30	30	30	120
39	ISHA G. KHARATE	A	30	30	30	22	112
40	VASUNDHARA PRAKASH	A	30	26	28	30	114
41	SAKSHI NANDKISHOR THORAT	A	30	28	30	30	118
42	MANISHA PRABHATILAL	A	26	30	28	30	114
43	UMESH RAJU SHINDE	A	30	30	26	30	116
44	RUTIK SANJAY INGOLE	A	30	30	30	30	120
45	SANIKA RAJESH KOLWADKAR	A	30	30	30	30	120
46	RANI KISANRAO NANDANE	A	22	28	30	30	110
47	RENUKA DINESH BADE	A	26	24	28	30	108
48	MANAV INDRAKANT GHUGARE	A	30	30	20	30	110
49	SUJAL RAMBHAU GHAYAL	A	22	30	30	24	106
50	GAYATRI DIPAK GADEKAR	A	30	30	30	30	120
51	SHIVAM AMOL TURKHADE	A	24	30	0	30	84
52	BHAVNA VIJAY DAHAKE	A	30	30	20	30	110
53	AMRUTA VINOD THAVRI	A	26	30	24	8	88
54	SANI SURESH RATHOD	A	28	30	30	30	118
55	DIPAK RAMESH GAWAI	A	28	24	12	30	94
56	GHATOLE AKSHAY DILIP	A	26	20	26	30	102
57	SAKSHI KAKADE	A	13	14	15	15	57
58	MAYURI JAISINGH JADHAO	A	30	6	30	7	73
59	SAKSHI V. RAUT	A	13	8	7	14	42
60	PRITI DILIP RATHOD	A	13	13	14	20	60
61	SANGHARSH LOHAKARE	A	24	0	0	30	54
62	SANJANA KISAN CHAKRE	A	14	12	13	15	54
63	RUTUJA SATISH MANCHALWAR	A	5	28	6	7	46
64	KARAN SURESH CHAVHAN	A	25	0	0	24	49
65	TANMAY SHANKARRAO CHAVHAN	A	3	20	14	16	53


Sessional Incharge




First Year Incharge
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Technology Arni Road, Kinli, Yavatma.

Sr.No.	Name of Student	Section	M-II	Chem	EG	EE	Total marks out of 120
1	NIKHIL UDEBHANJI NAGOSE	B	30	30	30	30	120
2	Gaurav P. Shrivastav	B	30	30	30	30	120
3	SAKSHI DILIP BHOKTE	B	30	30	30	30	120
4	ABHAY RAJKUMAR MAHALLE	B	30	26	30	30	116
5	ALTAF KHUDDUS BAIG	B	30	22	30	30	112
6	PRATHAMESH KINHIKAR	B	30	30	30	30	120
7	ROHIT ASHOK PAWAR	B	30	24	30	30	114
8	SHREYA ARUN THAWARI	B	30	28	30	30	118
9	SWEETY RAJU BHOKTE	B	22	30	30	30	112
10	Abhishek Kishor Bhojar	B	30	26	30	30	116
11	RAKSHANDA PANDIT JADHAO	B	30	24	30	30	114
12	RUTIK BAGMARE	B	28	24	30	30	112
13	JAY SUNIL BHOYAR	B	30	28	30	30	118
14	Rushant Dinkar Bobde	B	24	28	30	30	112
15	Rohan Mahadeo Chavhan	B	28	26	22	22	98
16	RAJ SUDHIR PAWAR	B	26	30	30	30	116
17	EKTA SUDESH RATHOD	B	30	28	30	30	118
18	SAHIL MANUTRAO INGULKAR	B	30	26	30	30	116
19	VAISHNAVI SANTOSH ZAGALE	B	30	24	30	30	114
20	TEJAS SANTOSH BOHARE	B	30	28	30	30	118
21	SHIVANI WANKHADE	B	26	22	30	30	108
22	ABHISHEK KRUSHNA MUNGLE	B	24	24	30	30	108
23	SHEKH AYYAS SHEKH AHEMAD	B	30	24	30	30	114
24	KUNAL JITENDRA GIRI	B	28	28	30	30	116
25	SHREYA WANKHADE	B	30	24	30	30	114
26	PRATHMESH SARODE	B	22	30	30	30	112
27	GOPAL VINOD GAWANDE	B	28	22	30	30	110
28	TANU TULSIDAS PATEL	B	26	30	30	30	116
29	TWINKLE SIDDHARTH LADHE	B	30	30	30	30	120
30	DARSHAN SURESH BURADE	B	30	30	30	30	120
31	TEJAS RAVINDRA KEVATE	B	30	30	30	30	120
32	HARSH RAMESH PALI	B	30	30	30	30	120
33	SNEHAL VINAYAK MORE	B	30	20	30	30	110
34	Chetan R. Sonvane	B	24	24	30	30	108
35	SANIYA ARNAB SYED ALI	B	30	26	30	30	116
36	ARPITA VINAYAK BHAVARE	B	28	26	30	30	114
37	ROSIAN DEVIDAS RATHOD	B	24	22	30	30	106
38	HIMANSHU ANIL JADHAO	B	26	24	30	30	110
39	SUKANYA BHIMRAO PATIL	B	30	28	30	30	118
40	DANISH MAHEMOOD SHEIKH	B	28	14	30	30	102
41	YASH PRABHAKAR DHOTE	B	30	24	30	30	114



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42	SHIVLING NAGORAO DUPARTE	B	22	26	30	30	108
43	NIRAJ UTTAM PAWAR	B	30	24	30	30	114
44	DNYANESHWAR JADHAV	B	30	18	30	30	108
45	POOJA HARI NANDANE	B	28	24	30	30	112
46	SHUBHAM BADGHAIYA	B	30	24	30	30	114
47	MAHESH SUBHASH RATHOD	B	24	26	30	30	110
48	SONALI SANTOSH CHAVHAN	B	30	28	30	30	118
49	DEEP RAVINDRA TAJNE	B	30	26	30	30	116
50	DIGVIJAY MEHATRE	B	30	18	28	28	104
51	Dhyaneshwar Rathod	B	30	26	30	30	116
52	Ganesh Kanade	B	30	24	30	30	114
53	ADARSH RAJESH DAMLE	B	30	24	30	30	114
54	NIKITA TUKARAM RATHOD	B	30	26	30	30	116
55	ASIT DNYANESHWAR JAMNIK	B	26	24	30	30	110
56	VAISHNAVI TUMBADE	B	30	22	30	30	112
57	RAHUL PRAKASH HAWALDAR	B	30	28	30	30	118
58	PALLAVI UKANDA JADHAO	B	30	28	12	12	82
59	BHAGYASHREE RATHOD	B	26	20	8	30	84
60	SACHIN MAROTTI ADE	B	24	24	30	30	108
61	EKTA DASHRATH CHAVHAN	B	30	26	30	30	116
62	SAKSHI ASHOK KAMBLE	B	30	28	30	30	118
63	AKSHAY FULMALI	B	30	22	20	20	92
64	SANDESH MOHAN RATHOD	B	22	18	24	24	88
65	SANTOSH GAJANAN KANDALE	B	13	13	15	12	53
66	ROSHANI DURGASING RATHOD	B	13	12	12	12	49
67	SAQIB SHAH BASHIR SHAH	B	20	14	3	3	40
68	Aditya V. Bhagat	B	14	12	14	15	55
69	VIKAS SANTOSH RATHOD	B	12	12	13	13	50

M. B. Wani
 Sessional Incharge
 Dr. M. B. Wani

M. A. Khan
 First Year Incharge
 M. A. Khan



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 Technology, Amli, Kinhi, Yavatmal

Jagdambha College of Engineering and Technology Yavatmal

Department= First Year Session 2020-21 Sem I Subject - Engineering Chemistry
Test

* Required

1. Email *

2. Name of Student *

3. Section *

4. Roll No. *

5. Contact Number (Student) *

6. Contact Number (Parent) *



A handwritten signature in black ink, appearing to be "M. S. R.", written over a horizontal line.

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7. 01. Hardness of water is present due to *

2 points

Mark only one oval.

- Salts
- solution
- gases
- air

8. 02. Alkaline hardness caused by *

2 points

Mark only one oval.

- bicarbonates of sodium
- carbonates of pottasum
- bicarbonates of Ca and Mg
- bicarbonates of Cu

9. 3. Units of hardness of water is *

2 points

Mark only one oval.

- gram/liter
- parts per million
- pounds
- grains

10. 4. Hardness of ware can be determined by *

2 points

Mark only one oval.

- Zeolite method
- Lime-Soda method
- EDTA method
- Ion-exchange method



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11. 5. Zeolite softener possess *

2 points

Mark only one oval.

- exchangeable K ions
- exchangeable Na ions
- exchangeable H ions
- exchangeable Cr ions

12. 6. Permanent hardness is due to presence of *

2 points

Mark only one oval.

- bicarbonates of Ca/Mg ions
- oxides of nitrogen
- chloride/sulphate/nitrate salts of Ca/Mg ions
- carbonates of Fe

13. 7. Exhausted Zeolite softner can be regenerated by *

2 points

Mark only one oval.

- HCl solution
- NaOH solution
- NaCl solution
- KOH solution

14. 8. when hard water is passed through Cation exchange resin *

2 points

Mark only one oval.

- only acidic nature of water get removed
- only temporary hardness is removed
- temporary and permanent hardness get removed
- turbidity get removed



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15. 9. Deionised water obtained from Ion-exchange process contain residual hardness up to * 2 points

Mark only one oval.

- 10 ppm
 20 ppm
 50 ppm
 0-2 ppm

16. 10. RO water can be obtained by * 2 points


Mark only one oval.

- Reverse Osmosis process
 Ion exchange process
 Osmosis process
 Zeolite process

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Jagadamba College of Engineering & Technology, Yavatmal

First Year Engineering Department

First Sessional Examination

Subject:- Electrical Engineering

Max. Marks:30

Time: 1 Hour (11.30 am to 12.30 pm)

Note: 1) Solve 15 MCQ's out of 20 MCQ's.

2) Every question carries 2 marks.

3) For any Query contact your subject teacher

4) You have to submit the paper within given time up to 12.30 pm.

* Required

1. Email *

2. Write Your Name *

3. Write Your Roll No. *

4. Write Your Branch Name *



A handwritten signature in black ink, appearing to be "M. S. R.", written over a horizontal line.

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5. 01. What is the Equation of Series Circuit ?

2 points

Mark only one oval.

- A) $R_p = 1/R_1 + 1/R_2 + 1/R_3$
- B) $R_s = R_1 - R_2 - R_3$
- C) $R_s = R_1 + R_2 + R_3$
- D) All of the above

6. 02. What is the unit of Resistance ?

2 points

Mark only one oval.

- A) Ohm/Meter
- B) Mho
- C) Joules/sec
- D) Ohm

7. 03. In a Parallel circuit, which of the parameters remain constant across all circuit elements.

2 points

Mark only one oval.

- A) Power
- B) Current
- C) Voltage
- D) All of the above



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8. 04. Star connection is also known as _____

2 points

Mark only one oval.

- A) Y-connection
- B) Mesh connection
- C) Either Y-connection or mesh connection
- D) Neither Y-connection nor mesh connection

9. 05. R_{ab} is the resistance between the terminals A and B, R_{bc} between B and C and R_{ca} between C and A. These 3 resistors are connected in delta connection. After transforming to star, the resistance at B will be?

2 points

Mark only one oval.

- A) $R_{ac}/(R_{ab}+R_{bc}+R_{ca})$
- B) $R_{ab}/(R_{ab}+R_{bc}+R_{ca})$
- C) $R_{bc} \cdot R_{ab}/(R_{ab}+R_{bc}+R_{ca})$
- D) $R_{ab}/(R_{ab}+R_{bc}+R_{ca})$

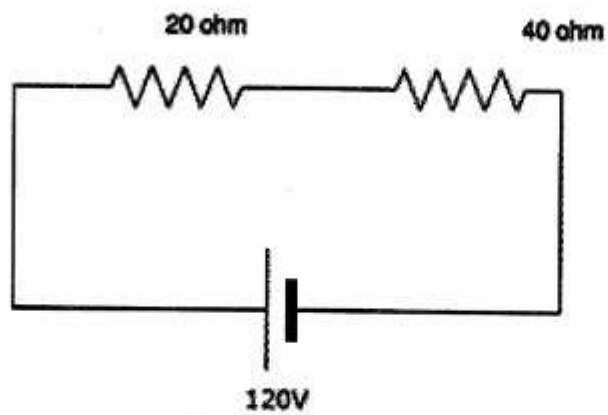


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10. 06. Find the current in the circuit

2 points



Mark only one oval.

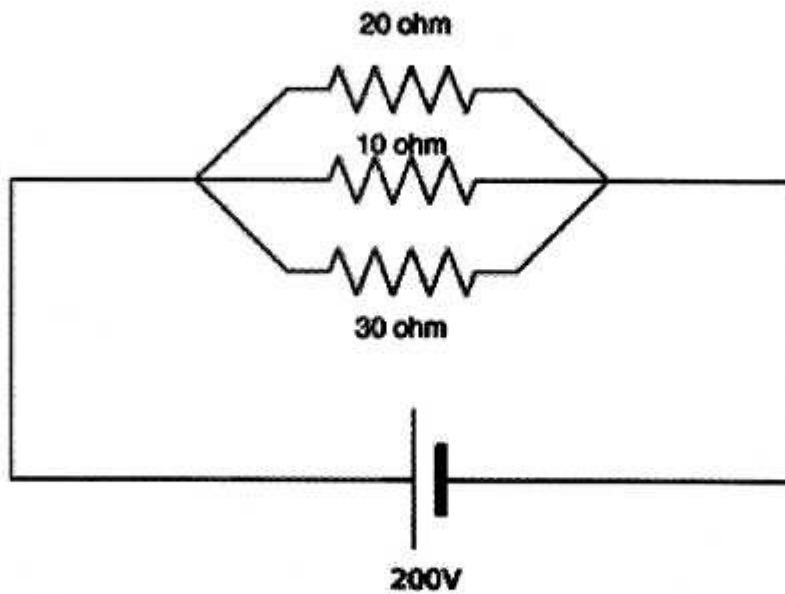
- A) 01 Amp
- B) 02 Amp
- C) 03 Amp
- D) 04 Amp



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11. 07. Calculate the current flowing through the circuit.

2 points



Mark only one oval.

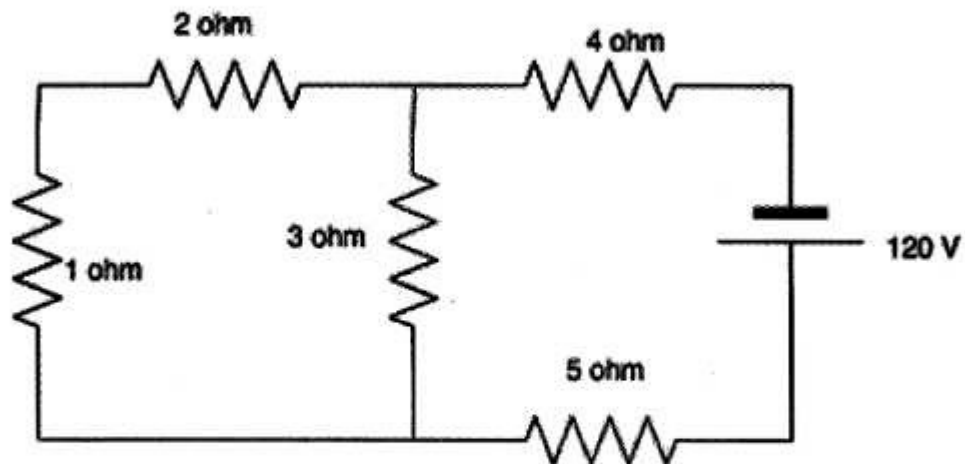
- A) 5.4545 Amp
- B) 2.6667 Amp
- C) 6.6777 Amp
- D) 36.677 Amp



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12. 08. Calculate the total current in the circuit

2 points



Mark only one oval.

- A) 14.05 Amp
- B) 10.02 Amp
- C) 11.43 Amp
- D) 15.04 Amp

13. 09. Which quantity can be determined by using Kirchhoff's Current Law. 2 points

Mark only one oval.

- A) Energy
- B) Time
- C) Voltage
- D) Current



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14. 10. Kilowatt-hour(kWh) is a unit of?

2 points

Mark only one oval.

- A) Current
- B) Power
- C) Energy
- D) Resistance

15. 11. In superposition theorem, when we consider the effect of one voltage source, all the other voltage sources are

2 points

Mark only one oval.

- A) Shorted
- B) Opened
- C) Removed
- D) Undisturbed

16. 12. Superposition theorem is valid for _____

2 points

Mark only one oval.

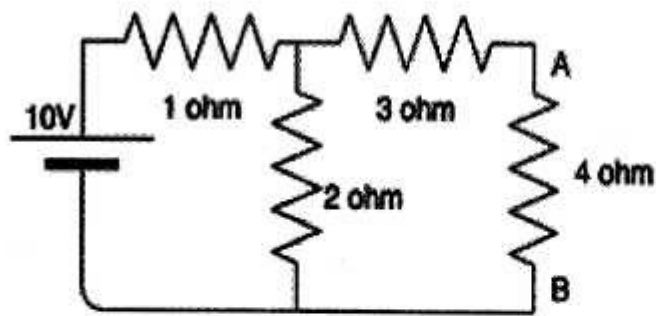
- A) Linear systems
- B) Non-linear systems
- C) Both linear and non-linear systems
- D) Neither linear nor non-linear systems



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17. 13. Calculate the current across the 4 ohm resistor.

2 points



Mark only one oval.

- A) 0.86A
- B) 1.23A
- C) 2.22A
- D) 0.67A

18. 14. Which quantity can be determined by using Kirchhoff's Voltage Law.

2 points

Mark only one oval.

- Ohm
- Voltage
- Current
- Resistance



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19. 15. A transformer transform

2 points

Mark only one oval.

- A) Voltage
- B) Current
- C) Electrical Power
- D) Resistance

20. 16. Transformer is a Device.

2 points

Mark only one oval.

- A) Rotating
- B) Static
- C) Both
- D) None of the above

21. 17. Transformer works on which principal

2 points

Mark only one oval.

- A) Mutual Induction
- B) Lenz Law
- C) Fleming Left Hand Rule
- D) Superposition Theorem



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22. 18. Transformer works on which supply 2 points

Mark only one oval.

- A) AC Supply
- B) DC Supply
- C) Both AC & DC Supply
- D) All of the above

23. 19. Which quantity remains unchanged in the transformer 2 points

Mark only one oval.

- A) Voltage
- B) Current
- C) Frequency
- D) Resistance

24. 20. What are the different types of transformer 2 points

Mark only one oval.

- A) Step-up Transformer
- B) Step-down Transformer
- C) 1:1 Transformer
- D) All of the above



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B.E.First Semester (First Sessional) Winter 2021

1A1 : Engineering Mathematics - I

Time: 1 Hour

Max. Marks:30

College Name: Jagadambha College of Engineering & Technology,
Yavatmal

Note: 1) Solve 15 MCQ's out of 20 MCQ's.

2) Every question carries 2 marks. There is no negative marking.

* Required

1. Email *

2. Write your full Name *

3. Write your Roll No. *

4. Write your Mobile.No. *

5. Year/Semester *



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6. 1.If $y=x^n$ then n th order derivative is.

2 points

Mark only one oval.



A) $(n - 1)!$

B)



C) $n!$

D)

7. 2.

2 points

If u & v are two functions of x , possessing derivatives of n^{th} order

$$(u \cdot v)_n = n c_0 u_n v + n c_1 u_{n-1} v_1 + n c_2 u_{n-2} v_2 + \dots + n c_n u \cdot v_n \text{ then it is}$$

Mark only one oval.

A) Cauchy's Theorem

B) Leibnitz Theorem

C) Green's Theorem

D) Legendre's Theorem



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8. 3.

2 points

If $f(x) = \frac{\sin x}{x}$, how many points exist such that $f(c) = 0$ in $(0, 18\pi)$

Mark only one oval.

- A) 18
- B) 17
- C) 8
- D) 9

9. 4. Roll's Theorem is special case of.

2 points

Mark only one oval.

- A) Leibnitz's Theorem
- B) Mean value Theorem
- C) Taylor's Series of function
- D) Leibnit'x Theorem

10. 5.

2 points

The value of C if $f(x) = x(x-3)e^{3x}$ is Continuous over $[0,3]$ & differentiable over $(0,3)$ and $C \in (0,3)$ is

Mark only one oval.

- A) 0.369
- B) 2.703
- C) 0
- D) 3



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11. 6. Is the value of C which lies in [1, 2] for the function is 2 points

$$f(x) = 4x \text{ \& } g(x) = 3x^2$$

Mark only one oval.

- A) 1.6
 B) 1
 C) 2
 D) 1.5

12. 7. Which of following method is used to simplify the evaluation of limits. 2 points

Mark only one oval.

- A) Cauchy's MVT
 B) Roll's Theorem
 C) L-Hospital rule
 D) Fourier Transform



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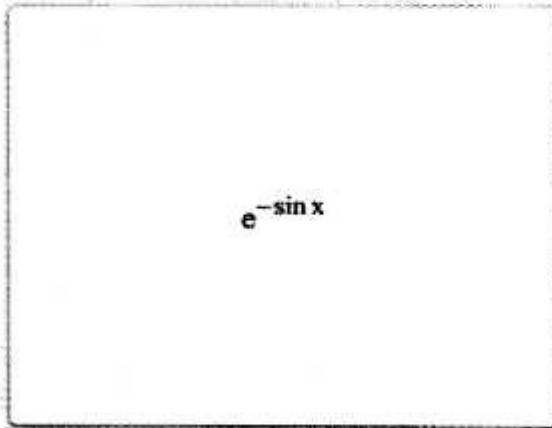
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13. 8.

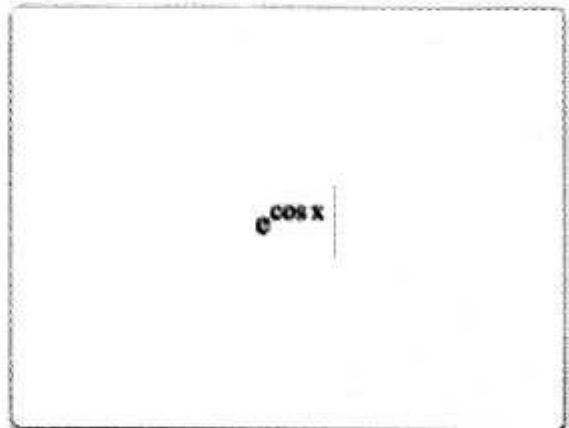
2 points

The expansion $1 + x + \frac{x^2}{2} - \frac{x^4}{8} + \dots$ of which following function.

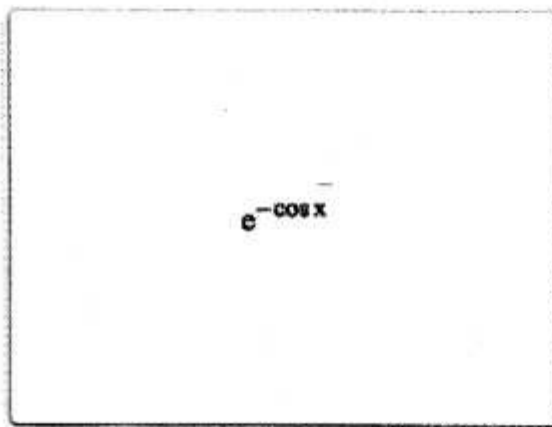
Mark only one oval.



A)



B)



C)



D)



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14. 9.

2 points

$$\lim_{x \rightarrow 0} \frac{\sin x}{\tan x} \text{ is}$$

Mark only one oval.

- A) 0
- B) 1
- C) Infinity
- D) 2

15. 10

2 points

$$\lim_{x \rightarrow 0} \frac{\sin 3x}{\sin 4x} \text{ is}$$

Mark only one oval.

- A) 1
- B) 4/3
- C) 3/4
- D) 0



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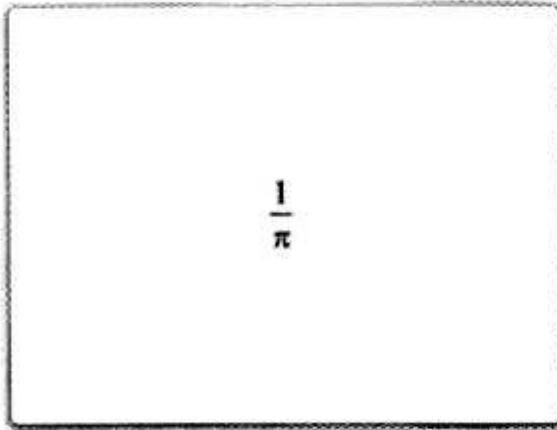
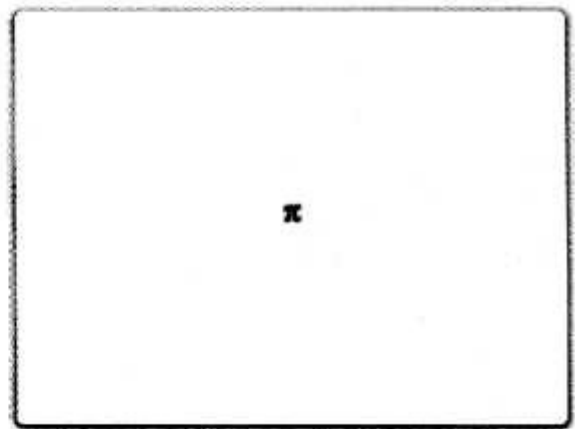
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16. 11.

2 points

$$\lim_{x \rightarrow 0} \frac{\tan \pi x}{x} \text{ is}$$

Mark only one oval.

 A) B) 0 C) 1 D)

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17. 12.

2 points

If $f(x, y) = x^2 + xyz + z$ find f_x at (1, 1 1).

Mark only one oval.

- A) 0
- B) 1
- C) 3
- D) -1

18. 13.

2 points

If $f(x, y) = x^2 + y^2$; $x = t^2 + t^3$, $y = t^3 + t^9$, Find $\frac{df}{dt}$ at $t = 1$

Mark only one oval.

- A) 0
- B) 1
- C) -1
- D) 164



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19. 14. if u is homogeneous function of two variables x & y of degree n , 2 points then

$$x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = ? \text{ is}$$

Mark only one oval.

$$n(n-1)(u)$$

A)

$$g(u)$$

B)

$$n(u)$$

C)

$$g(g-1)(u)$$

D)



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20. 15.

2 points

If $u = e^{\frac{x}{y}} \sin\left(\frac{x}{y}\right) + e^{\frac{y}{x}} \cos\left(\frac{x}{y}\right)$ then $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y}$ is

Mark only one oval.

- A) 1
- B) 2
- C) -1
- D) 0



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21. 16. Stationary point is a point where, function $f(x, y)$ have?

2 points

Mark only one oval.

$$\frac{\partial f}{\partial x} = 0$$

A)

$$\frac{\partial f}{\partial y} = 0$$

B)

$$\frac{\partial f}{\partial x} = 0, \frac{\partial f}{\partial y} = 0$$

C)

$$\frac{\partial f}{\partial x} < 0 \text{ and } \frac{\partial f}{\partial y} > 0$$

D)

22. 17.

2 points

If the condition $r - 5^2 > 0$ & $r > 0$ then $f(x, y)$ is said to have the value is?

Mark only one oval.

- A) Maximum
- B) Minimum
- C) Not maximum
- D) None



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23. 18.

2 points

The minimum value of $f(x, y) = x^2 + y^2 + 6x + 12$ is

Mark only one oval.

A) 3

B) -3

C) 9

D) -9

24. 19. The maximum value of if A, B, C are angles of triangles.

2 points

Mark only one oval.

$$\frac{3\sqrt{3}}{8}$$

A)

$$\frac{3\sqrt{8}}{4}$$

B)

$$-\frac{3\sqrt{3}}{8}$$

C)

$$\frac{\pi}{8}$$

D)



[Handwritten Signature]

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25. 20. Maximize the function $x + y - z = 1$ with respect to the constraint $xy=36$. 2 points

Mark only one oval.

- a) 0
- b) -8
- c) 8
- d) No Maxima exists

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