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TSNPDCL Assistant Engineer

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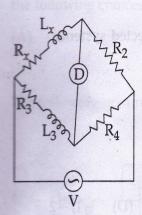


TS NPDCL [2015]

PART - A

1.	Acco		ne breaking str	ength of all conductor	s of overhead power line	28
	(A)	not less than 450 kg	(B)	not less than 350 kg		
	(C)	not less than 250 kg		not less than 500 kg		
	*	wit.	* altain	De vomonos of		
				M-U-30	NO feet 140	
2.	In a	DC generator the windir	ngs of interpole	es are connected :		
		isa swith main fial	d winding to	create a pole of same	polarity as the main po	le
	(A)	ahead in the direction of	of rotation.			
	(B)	in series with main field ahead in the direction of	I winding, to coording to coordinate to co	reate a pole of opposit	e polarity as the main po	le
	46)	in series with the armatahead in the direction	ture winding, to frotation.	o create a pole of sam	e polarity as the main po	le
,	(D)	in series with the arma pole ahead in the direc	ture winding, tion of rotation	to create a pole of op 1.	posite polarity as the ma	ir
					es es estado de esta	
3.	A d of the	ouble cage induction mone following conditions a	tor has better re satisfied :	starting and running	characteristics because to	V
	(1)	The inner cage has hig	h resistance a	nd reactance		
	(2)	The inner cage has lov	v resistance an	d high reactance		
8	(3)	The outer cage has hig	th resistance a	nd low reactance		
% e	(4)	The outer cage has lov	v resistance an	d reactance		
	The	y are:				
	(A)	(2), (4) (B)	(1), (3)	(2) , (3)	(D) (1), (4)	

4. The unknown inductance L_r is measured using Maxwells bridge shown in figure.



Under balanced conditions R_x and L_x are given by :

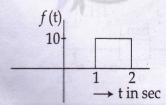
(A)
$$R_x = \frac{R_4}{R_2} R_3 ; L_x = \frac{R_2}{R_4} L_3$$

(A)
$$R_x = \frac{R_4}{R_2} R_3$$
; $L_x = \frac{R_2}{R_4} L_3$ $R_x = \frac{R_2}{R_4} R_3$; $L_x = \frac{R_2}{R_4} L_3$

(C)
$$R_x = \frac{R_2}{R_4} R_3$$
; $L_x = \frac{R_4}{R_2} L_3$ (D) $R_x = \frac{R_4}{R_3} R_2$; $L_x = \frac{R_4}{R_3} L_3$

(D)
$$R_x = \frac{R_4}{R_3} R_2 ; L_x = \frac{R_4}{R_3} L_3$$

- Slip test is performed to determine:
 - Slip in an induction motor
 - \boldsymbol{X}_{d} and \boldsymbol{X}_{q} in a salient pole alternator
 - Synchronous impedance in an alternator
 - Positive and negative sequence impedances of an alternator (D)
- The Laplace transform of the function shown in the figure, is: 6.



(A)
$$\frac{10}{s}e^{-s}$$

(B)
$$\frac{10}{s} \left(e^{-s} + e^{-2s} \right)$$

(A)
$$\frac{10}{s}e^{-s}$$
 (B) $\frac{10}{s}\left(e^{-s}+e^{-2s}\right)$ (C) $\frac{10}{s}\left(e^{-s}-e^{-2s}\right)$ (D) $10\left(e^{-s}-e^{-2s}\right)$

(D)
$$10(e^{-s}-e^{-2s})$$

Peterson coil is used for: 7.

- shunt compensation of lines
- reduce fault currents (B)
- grounding of system neutral
- connecting interconnected systems (D)

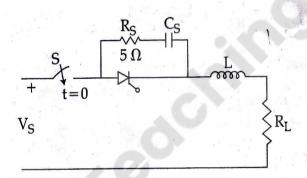
The open loop transfer function with unity feedback is given by 8.

$$G(s) = \frac{1}{s(s+2)}.$$

The poles of the closed loop system are located at:

- (A) 0, -2
- (B) 2.46, -4.46 (C) -1, -1

Figure shows a thyrister controlling power in a load resistance R_L. The supply voltage is 240 V DC and the limit for $\frac{di}{dt}$ for the SCR is 50 A/µsec. The minimum value of L, used for $\frac{di}{dt}$ protection, in µH is:



- (A) 2.4
- 120 (B)

A function F(s) could be a driving point Impedance or Admittance function of an RC or RL network

$$F(s) = \frac{(s+1)(s+3)}{(s+2)(s+4)}.$$

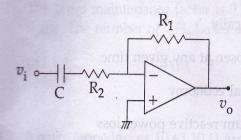
This function can be realised as:

- RL network if F(s) = Z(s)
- RC network if F(s) = Z(s)
- RL network if F(s) = Y(s)(C)
- It cannot be realised either by RC or RL network

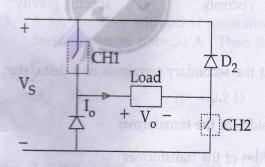
S

- From an open circuit test on a transformer, the no load power factor was determined. Out of the following choices which is the most likely value.
 - (A) 0.9
- (B) unity
- (C) 0.8
- (DY 0.4

12. The following op-amp circuit is:



- (A) Low pass filter with cut off frequency
- Low pass filter with cut off frequency
- High pass filter with cut off frequency $\frac{1}{R_2C}$
- (D) High pass filter with cut off frequency $\frac{1}{R_1C}$
- The circuit shown employs 2 choppers to supply the load. This chopper drive is: 13. 9/



- (A) one quadrant drive two quadrant drive
- (C) 3 quadrant drive and state (D) 4 quadrant drive serve properties (E)

14. The range of frequencies used in induction heating is:

(A) 0 - 25 Hz

- (B) 50 to 100 Hz
- (C) less than 200 Hz
- (D) more than 1 kHz

15. Unit commitment is a procedure in which:

- (A) Scheduling of total generation is done economically
- Optimal combination of units in a system is chosen at any given time
- (C) Most efficient machines are selected for financial economy
- (D) Most efficient machines are selected for minimum reactive power loss

16. If a phase lead compensator has the following transfer function.

$$G_{c}(s) = \frac{K\left(1 + \frac{s}{z}\right)}{\left(1 + \frac{s}{p}\right)} \quad p, z > 0.$$

Then.

$$(x)$$
 $z < p$

- (B) z > p
- (C) z > Kp
- (D) $z > \frac{K}{p}$

17. The state of charge of the battery is indicated by the electrolyte's:

- (A) mass
- (B) colour
- (C) viscosity
- specific gravity

18. If an unsymmetrical line to ground fault occurs at the secondary terminals of a delta/star, ungrounded transformer, then:

- (A) zero sequence currents are present on both sides of the transformer
- zero sequence currents are absent on both sides of the transformer
 - (C) zero sequence currents are present on the secondary side but not on the primary side
- (D) zero sequence currents are present on the primary side but not on the secondary side



)					·						2	E	E-15
19.	LVD	Γ is used	to meas	sure :					0 00	2 0 0 10 0			
	(A)	strain		(B)	pressure		(C)	flow	0 0 0 0 0 0	(0)	displ	acement	
	Á						in the last		ο,	.)			
20.	The la	amp mai	intenanc	e facto	×10 m is r is 0.7 a albs requ	nd utili	sation				O.		
2	(A)	5	* %	(B)	8		101	20		(D ̄)	30		
				141911									
1	A STATE OF THE PARTY OF THE PAR	CONTRACTOR OF STREET	The second control of		Ω are control I_R and						lanced	supply,	the
	(A)	45°		JEY	75°	. 1 . 2 .	(C)	15°		(D)	0°	*	* * * * * * * * * * * * * * * * * * *
	A (1)				i in					a a			v
2.		armature nt pole)		nt on s	ymmetri	ical 3 p	ohase	short c	ircuit o	f a synd	chrono	us mach	nine
	(A)	has q-ax	is curre	nt only						3 (2)			
	VB/	has d-ax	ds curre	nt only		197					2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	(C)	has both	d and	q axis o	currents				154			1.	
	(D)	cannot b	e divid	ed betw	veen q aı	nd d ax	is cur	rents		,	5 5 8 7 6		
				. •	naje siai	13 444	id¥:			v v v			
		and the same		aring.	ai Tusi		The same						
3.			ent upto	20 A.	esistance Then th	ne shun	t resis	stance t					eter
	44)	0.1 Ω ΠΟΙΖΕΙ ΙΤΙ	edeat recent		0.2 Ω		·(C)	0.3 Ω		(D)	1 Ω	P .	6
(4)	bas (S	1,(1)							. \	Y		C	H T
4.	applie	W, 220 Yed. If the	e applie	ed volta	C shunt age is red nce)	motor duced t	runs a to 165/	at 1550 V, the s	rpm on speed at	no load which i	d with	full volt un, in r	age om,
	(A)	1162.5	a,	(B)	775		(C)	1200		(DY	1550	0 # 400	

<u>D</u>	~~~~	
25.	Wł	nich of the following is a cold cathode lamp?
	(A)	Mercury vapour lamp (B) Sodium vapour lamp
	(C)	Incandescent lamp Neon lamp
26.	Loa	nd compensation in power systems is a process to :
	(A)	Maintain better voltage profile
	(B)	Increase short circuit capacity of the system
	(C)	Generate required harmonics for loads like arc furnaces
	(D)	Compensate for the line reactance
27.	Prin	nciple of Thermocouple is based on :
	(A)	Thomson effect (B) Peltier effect
	Ser	Seebeck effect (D) Kelvin effect
28.	The	- Africa the thirties of the service
20.		unit of speed regulation of a governor is:
	(A)	Hz (B) Hz/MW (C) Hz/MVA (D) rpm/MVAR
29.	Cons	sider the following statements. Which of these statements are correct?
	(1)	Reactance relays are preferred for ground fault relaying
H is	(2)	Impedance relays are most suitable for protecting long transmission lines
	(3)	Mho relays are best suited for long transmission line protection
	(4)	Reactance relays are widely used for protection of Medium transmission lines
	(A)	All of them (1) and (3) (C) (2) and (4) (D) (1), (2) and (4)
30.	HRC	fuses provide best protection against:
***		lightning (C) overload (D) over voltage

8

D

air damping

- fluid damping
- eddy current damping
- (D) magnetic damping using a magnet

The fundamental component of the single phase full bridge inverter output voltage is (Vs is 32. the DC input voltage):

- (A) $\frac{\mathbf{V_s}}{\pi}$ sin ω t (C) $\frac{4V_s}{3\pi}$ sin ω t $\frac{4V_s}{\pi}$ sin ω t

A dummy strain gage is used in a quarter bridge strain gage circuit to:

- compensate for changes in temperature and lead wire resistance
- produce more output voltage from the bridge
- increase the sensitivity of the bridge

te 8005 paragrama

compensate lead wire resistance only

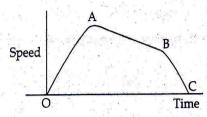
A 500 W bulb fitted with a reflector illuminates an area of 2 m×2 m with an average 34. illumination of 500 lux. The efficiency of the reflector is 50%. The efficiency of the bulb in lumens/watt is:

- (B) 10
- (C)
- (D) 12

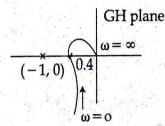
A 3 6, 6 P induction motor is run with a rated voltage V and rated frequency 50 Hz. The **maximum torque** obtained is T_{m1}. If the motor is supplied with same voltage but a frequency of 60 Hz, the maximum torque would be approximately.

- **0.7** T_{m1} (B) 0.5 T_{m1} (C) 1.2 T_{m1}

36. The speed time curve for an electric train is shown in the figure. In this, the segment represents.



- (A) Acceleration
- (B) Coasting
- (C) Braking
- (D) Regeneration
- 37. The polar plot of a feedback control system, which is open loop stable with gain K=1 given by





Now if K is doubled, the system will be:

- (A) stable with less oscillations in step response
- (B) unstable
- stable with more oscillations in step response
- (D) step response has sustained oscillations
- 38. In a 3 stack, variable reluctance stepper motor with 12 rotor teeth, the angle through which the rotor moves for one pulse excitation is:
 - (A) 12°
- (B) 5
- (c) 1
- (D) 30°

- 39. A Pyrheliometer is an instrument to measure :
 - (A) temperature of solar photovoltaic cell
 - intensity of direct solar radiation at normal incidence
 - (C) intensity of indirect solar radiation
 - (D) efficiency of a solar photovoltaic cell

40. A second order system with zero initial conditions, has an impulse response

C (t) = $10 e^{-5t} \sin 10 t$ for $t \ge 0$

when excited by a unit step input, the steady state value of the response is:

- (A) 0
- (B) 1.0
- 0.5 (C)
- A load has a per unit impedance of 0.6 to a base of 20 MVA and 33 kV. The P.U. impedance 41. to a base of 10 MVA and 11 kV is:
 - (A) 0.121

Consider the 8085 program below

MVI A BB

LXI B 2060 H

STAX B

After this program is executed, the contents of A and the flag which is set, are:

- OOH, carry flag (A)
- BB, AC flag
- OOH, zero flag
- BB, no flag
- The supply for arc welding is: 43.
 - High voltage, high current ac voltage
 - Low voltage, low current ac voltage (B)
 - High voltage, high current dc voltage
 - Low voltage, high current ac or dc voltage
- A transmission line of 200 km has a certain A, B, C and D parameters. If the length is 44. reduced to 60 km.
- A increases, B decreases
- A and B increase
- A decreases, B decreases
- (D) A and B decrease

45. Consider the two columns A and B. In the column A different instruments are given column B certain characteristics of the meters are given. Match items of A with B.

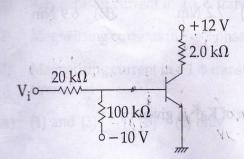
	A		-В
	Moving iron	(i)	No control springs
(2)	PMMC	(ii)	Air damping
(3)	Energy meter		Electromagnetic damping
		(iv)	Eddy current damping

- (A) (1)-(iv), (2)-(iii), (3)-(ii)
- (B) (1)-(iii), (2)-(ii), (3)-(iv)
- (C) (1)-(ii), (2)-(iii), (3)-(i)
- (D) (1)-(ii), (2)-(iv), (3)-(i)
- 46. For using regenerative breaking, the most suitable motor is:
 - (A) DC series motor
- (B) Slip ring induction motor
- (C) Squirrel cage induction motor
- (D) Synchronous motor
- 47. For the K-map shown the minimised function is:

AB^{C}	D 00	01	11	10
00	D	1)	0	1
01	0	0	0	0
11	0	0	/1	1
10	1)	0	ĺ	1
				-

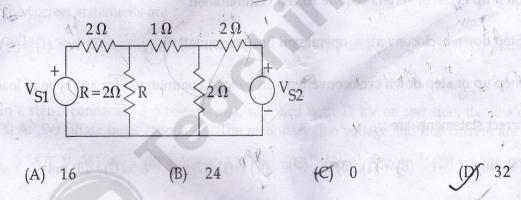
- (A) $\overline{A}\overline{B}\overline{C} + AC + \overline{B}CD + \overline{A}\overline{B}\overline{D}$
- (B) $\overline{A}\overline{B}\overline{C} + AC + \overline{A}BC$
- (C) $\overline{A}\overline{B}\overline{C}+AC+\overline{B}\overline{D}$
- (D) $\overline{A}\overline{B}\overline{C} + AC + \overline{A}\overline{B}\overline{D}$

Consider the circuit shown in the figure. If the β of the transistor is 30 and the input voltage is +5 V, then the transistor would be operating in :

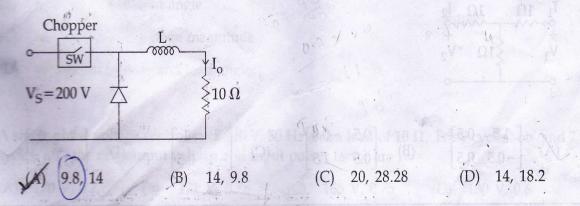


- (A) cut off region
- active region

- (B) breakdown region
- (D) saturation region
- 49. In the circuit shown the power in resistor R is 8 W, when $V_{S1} = 12 \text{ V}$ and $V_{S2} = 0 \text{ V}$. Find the power in the same resistor R when $V_{S1} = 12 \text{ V}$ and $V_{S2} = 24 \text{ V}$, in watts.



50. For the simple chopper circuit shown, the average and rms value of currents for a duty cycle of 0.49, in amps, are (neglect the drop across chopper when ON)



51.

7.4 Nm

torque at 5% slip is:

- 7.2 Nm
- (D) 6.9 Nm

52. If Z transform of a^{K} is $\frac{Z}{Z-a}$ then the Z transform of Ka^{K} is given by:

- (A) $\frac{KZ}{Z-a}$ (B) $\frac{-aZ}{\left(Z-a\right)^2}$ (D) $\frac{a}{\left(Z-a\right)^2}$

F

Consider the following statements: 53.

- Step up cycloconverters require forced commutation.
- Step down cycloconverters operate on line commutation (2)
- Step up or step down cycloconverters can be load commutated for any type of load

The correct statements are:

- (1) only
- (B) (1), (3)
- (1), (2)
- (D) (3) only

The h-parameter matrix of the network shown is: 54.

- $(A) \begin{bmatrix} 1.5 & 0.5 \\ -0.5 & 0.5 \end{bmatrix} \qquad (B) \begin{bmatrix} 0.5 & -0.5 \\ 0.5 & 1.5 \end{bmatrix} \qquad (C) \begin{bmatrix} 2 & 1 \\ -1 & 0.5 \end{bmatrix} \qquad (D) \begin{bmatrix} 2 & 0 \\ -1 & 0.5 \end{bmatrix}$

The

Consider the following statements.

- (1) Magnetising current in a 1 ϕ transformer is sinusoidal
- (2) Magnetising currents in the 3 phase supply lines of a 3 phase transformer are sinusoidal
- Magnetising current in a 1 φ transformer is non sinusoidal but the induced voltages are (3)sinusoidal
- (A) (1) and (3)
- (B) (2) only
- (2) and (3) (D) (1) only

Consider the following statements:

- (1) **IGBT** has low input impedance compared to PMOSFET.
- IGBT and PMOSFET are both voltage controlled devices
- (3) **IGBT** can be designed for higher voltages compared to PMOSFETS
- IGBT converters are more costly and bigger in size compared to BJT converters

The correct statements are

- (A) (1) and (2)
- (2) and (3)
- (C) (3) and (4) (D) (1) and (4)
- 57. In a star- Δ connected 3 ϕ transformer, supplied with 11 kV on star side, the line current is 20 A. Per phase turns ratio is 11. The secondary line voltage and line current are :
 - (A) 577 V, 381 A
- (B) 550 V, 220 A
- (C) 635 V, 381 A
- (D) 1 kV, 220 A
- The specified variables at any PV bus for a load flow study are: 58.
 - (A) real and reactive power



- real power and load angle
- real power and voltage magnitude
- (D) voltage magnitude and load angle
- A single phase voltage controller of 220 V, 50 Hz and a load of 10 Ω . For 9 cycles 'on' and 7 cycles off, the rms output voltage and input power factor are :
 - (A) 170 V, 0.7
- 171 V, 0.78 (B)
- 165 V, 0.75
- (D) 180 V, 0.6

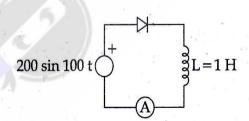
A voltage is impressed at the end A of a long transmission line AB. This voltage travelling along AB has two components $f\left(t-\frac{x}{v}\right)$ and $f\left(t+\frac{x}{v}\right)$ where v is the velocity of the wave and x is the distance travelled.

Which of the following statements is true for such a wave?

(A) $f\left(t - \frac{x}{v}\right)$ is a backward travelling component

therea)

- (B) $f\left(t + \frac{x}{v}\right) f\left(t \frac{x}{v}\right)$ is the total voltage at any time 't'
- The sum of the two is the total voltage at time 't'.
 - (D) $f\left(t\right) \frac{x}{v}$ is a forward travelling component and to be seen as $f\left(t\right) = \frac{x}{v}$
- The voltage of a DC 2 wire system operating at 200 V is raised to 400 V. The percentage saving in conductor material gained if same power is transmitted over the same distance with same power loss.
 - (A) 50
- (B) 40
- JØ 75
- (D) 60
- 62. In the diode rectifier circuit shown, the Permanent Magnet Moving coil meter will read:



- (A) 1 A
- (B) 1.414 A
- (2) 2 A
- (D) 2.814 A
- 63. A separately excited DC motor is energised from a 440 V, 50 Hz, 3 ϕ full converter. The input voltage to the motor for a firing angle of 45°, in volts, is:
 - (A) 420
- (B) 297
- (C) 390
- (D) 260

- In a synchronous generator if the excitation increased from a low value to normal value, with a fixed load.
 - The armature current increases and the power factor decreases
 - The armature current decreases and the power factor also decreases
 - (C) The armature current decreases and the power factor increases but is lagging
 - The armature current decreases and the power factor increases and is leading
- The voltages across various discs of suspension insulators having identical discs are different 65. due to:
 - (A) Surface leakage currents
- (B) Series capacitance of lines
- Shunt capacitance to ground
- (D) Series and shunt capacitances
- For a single phase full bridge inverter with $V_s = 220 \text{ V}$ DC, T = 1 ms feeding a resistive load, the fundamental component of the load voltage (rms value) in volts is:
 - $110\sqrt{2}$

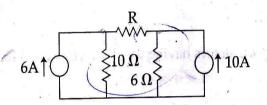
- (B) $280\sqrt{2}$ (C) $160\sqrt{2}$ (D) $140\sqrt{2}$
- The range of k for which the system with the following characteristic equation is stable, is $s^3 + ks^2 + (k+2)s + 3 = 0$:
 - (A) k>0

- 68. Which of the following is true for a bus impedance matrix?
 - (A) It is sparse
 - (B) It has diagonally dominant elements
 - It is the inverse of the bus admittance matrix
 - Each element of it is the reciprocal of the corresponding element in admittance matrix

69. In a transformer the core is laminated to reduce:

- (A) copper losses in the core
- (B) hysterisis losses only
- (C) hysterisis and eddy current losses (D) eddy current losses only

70. The power dissipated in watts, in the resistor R is:



- (A) 36 R
- (B) 0
- (C) 100 R
- (D) 16 F

71. The arc voltage in a circuit breaker is:

- (A) in phase with the arc current
- (B) lagging by 90° with arc current
- (C) leading by 90° with arc current
- (D) lagging by 45° with arc current

72. A short circuit test on a 1¢, 4 kVA, 200/400 V, 50 Hz transformer gave following results HV side: 15 V, 10 A, 80 W.

The percentage regulation on full load unity power factor is :

- JK 2
- (B) 4
- (C) 1
- (D) -2

The speed of a separately excited DC motor is controlled by a 3 φ , semiconverter from a 3- φ 440 V, 50 Hz supply. The armature resistance is 1 Ω and motor torque constant of 2 Nm/A. If firing angle is 45°, the back emf generated by the motor, for a torque of 50 Nm, is:

(A) 460 V



- (C) 420 V
- (D) 333 V

74. A	thyrite	type	lightening	arrester	•
-------	---------	------	------------	----------	---

- blocks surge voltages appearing on a line >
- absorbs the surge voltage appearing on a line (B)
- (C) returns the surge back to source
- offers low resistance path to surge currents

The electrode rod used for welding uses a coating on it:

- (1)to give a vapour to serve as a shielding gas to protect the weld area from atmospheric contamination ,
- to protect the arc (2)
- to provide slag to protect the welded area (3)
- to provide better contact with the base material (4)

Which of the statements are correct?

- (A) (1) and (2)
- (2) and (3)
- (1) and (3)
- (D) (3) only

In a 2 kW, 200 V, 1000 rpm DC series motor the torque at full load was found to be 0.3 N-m. The torque at half full load in N-m is:

- (A) 0.2
- (2) 0.075
- (D)

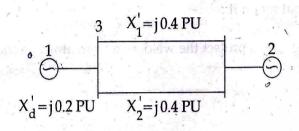
Damper winding is provided in 3 phase synchronous motors to:

- (A) prevent hunting only
- provide starting torque and prevent hunting

differiacease fit it is the

- (C) provide starting torque only
- (D) prevent crawling

- When high rate of rise of recovery voltages are expected in networks consisting of generators, 78. transformers, reactors and lines, circuit breakers with shunt resistance are employed. To ensure exponential build up to 50 Hz recovery without overshoot, the resistance connected is, (L is the inductance of the line and capacitance from line to ground is C)
 - (A) \sqrt{LC}
- $0.5\sqrt{\frac{L}{C}} \qquad (D) \sqrt{\frac{L}{C}}$
- A generator is connected to an infinite bus through a double circuit line as shown



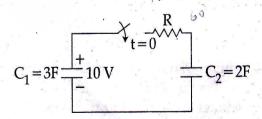
The admittance matrix Y is given by:

(A)
$$\begin{bmatrix} j5 & 0 & -j5 \\ 0 & j5 & -j5 \\ -j5 & -j5 & j10 \end{bmatrix}$$

(C)
$$\begin{bmatrix} -j5 & 0 & -j5 \\ 0 & j5 & -j5 \\ -j5 & -j5 & j10 \end{bmatrix}$$

(D)
$$\begin{bmatrix} -j5 & +j10 & j5 \\ j10 & -j5 & j5 \\ j5 & j5 & -j10 \end{bmatrix}$$

In the following circuit the switch is closed at t=0. The total energy lost in the resistor $R = 10\Omega$ is found to be 60 J. If the value of R is reduced to 5 Ω , the energy lost in the resistor



PART - B

- When was Telangana merged with Andhra, historically?
 - (A) 1956
- (B) 1958

- The sum of $\frac{1}{(32)^{-1/5}} + \frac{1}{(216)^{-2/3}} + \frac{1}{(256)^{-3/4}} =$
 - (A) 1
- (C) 101
- Choose the appropriate synonym for the word given below:

STERNUTATION

- (A) Sneezing
- Trepidation
- (C) Hardening
- (D) reversal

- What is the name of the India's first satellite?
 - (A) Bhaskara I
- (B) Bhaskara II
- (C) Aryabhatta (D) Rohini
- What is the sum of two consecutive even numbers, the difference of whose squares is 164?

- Which of the following dynasties ruled Telangana?
 - (A) Pala
- Sena
- (C) Kakatiya

- Who is the present Chairman/CEO of Google?
 - Mr. Sundar Pichai
- Mr. Satya Nadella (B)
- (C) Mr. Cyrus P. Mistry
- (D) Ms. Indra Nooyi

88.	Who among the following personalities received Bharata Ratna for the year 2015?
	(A) Shri Sachin Tendulkar (B) Shri Bhimsen Joshi
	(C) Shri C.N.R. Rao Shri Atal Bihari Vajpayee
. 3	
89.	A wireless technology built in electronic gadgets used for exchanging data over short distance is:
	(A) Wi-Max (B) Bluetooth (C) Modem (D) USB
90.	Identify the correct spelling from the options given.
8 2 8	Quintessence (B) Quintassence (C) Quintesance (D) Quinitessence
91.	What is the full form of SAARC?
* * *	(A) The South Atlantic Association for Regional Corporation
	(B) The South Asian Association for Regional Cooperation
	(C) The South Asian Association for Regional Corporation
	(D) The Southern Asia Association for Regional Cooperation
*	
92.	Bonalu is mainly celebrated in the period between:
(V)	(A) January and February (B) July and August
	(C) September and October (D) April and May
93.	The age of Rajesh differ by 20 year with Raghu. If 5 years ago, the age of Rajesh be 5 times as old as the Raghu, then their present ages in years as:
	(A) 20, 4 (B) 25, 5 (C) 30, 10 (D) 35, 15
94.	Which of the following is the official state bird of Telangana?
	(A) Peacock (B) Pegion (C) Sparrow (D) Indian roller

9/2 ans

D	1-411					0.5	A 1	EE-:
95.	Wha	t will be the de	cimal e	equivalent of (11	1011.10	01),?		1
	(A)	48.625	(B)	59.487	(C)	48.487	Ø	59.625
96.	requi	ires the followir	ng to ic	dentify itself:			st comp	uter on an Intern
	(A)	MAC address	(B)	IP address	(C)	Port	(D)	Socket
97.	Ident	tify the part of	the sen	tence that has a	n error			
	Telev	vision viewers c	laim th	at / the number	of sce	nts depicting / (B)	JE 1	
	alcoh	ol consumption	have (C)	increased drama	atically	over the last (D)	decade.	(Destily
98.		e following qu rlined word in			oice w	hich is most o	pposite	in meaning of th
	This	author has pers	picuity	in his style.			*	
	(A)	Frankness	(B)	Bluntness	(C)	Vivacity	(D)	Sincerity
99.	The d	lifference betweencess is known	en peo	ple with access	to com	puters and the	Internet	and those withou
	(AX	Digital divide	(B)	Internet divide	(C)	Web divide	(D)	Cyber divide
100.	intere	est was compor	and ha	d ₹ 50,000 with If yearly for fir al interest earne	st year	and in the ne	ext year	t per annum. Th
	(A)	₹ 20,300	(B)	₹ 49,200	Je)	₹ 47,020	(D)	₹ 48,010
	Al Car	May and	And	-00	6 -			K1000
	400	Magazir	1				V.Un	rl. P. T.

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Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS
1	С	26	A	51	С	76	С
2	D	27	С	52	A	77	A
3	A	28	D	53	С	78	В
4	A	29	С	54	В	79	С
5	D	30	A	55	В	80	В
6	A	31	A	56	A	81	D
7	В	32	В	57	C	82	A
8	D	33	В	58	A	83	В
9	С	34	A	59	С	84	С
10	A	35	В	60	A	85	В
11	В	36	В	61	D	86	С
12	D	37	C	62	С	87	A
13	С	38	D	63	A	88	D
14	С	39	A	64	D	89	В
15	D	40	С	65	D	90	D
16	C	41	D	66	В	91	С
17	A	42	A	67	С	92	A
18	В	43	D	68	A	93	В
19	D	44	В	69	D	94	D
20	В	45	С	70	В	95	A
21	С	46	В	71	С	96	В
22	С	47	D	72	A	97	В
23	D	48	D	73	A	98	A
24	D	49	A	74	В	99	С
25	В	50	В	75	С	100	D

Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS
1	В	26	D	51	A	76	В
2	С	27	В	52	С	77	A
3	D	28	С	53	D	78	В
4	С	29	В	54	A	79	В
5	A	30	С	55	В	80	A
6	С	31	A	56	С	81	A
7	A	32	D	57	D	82	A
8	D	33	D	58	В	83	С
9	С	34	В	59	С	84	D
10	D	35	С	60	В	85	С
11	В	36	C	61	В	86	В
12	С	37	A	62	С	87	D
13	D	38	A	63	В	88	С
14	A	39	A	64	D	89	В
15	В	40	С	65	A	90	D
16	С	41	В	66	D	91	В
17	D	42	В	67	A	92	В
18	A	43	A	68	D	93	В
19	A	44	В	69	A	94	В
20	В	45	С	70	С	95	С
21	В	46	С	71	D	96	A
22	С	47	С	72	D	97	D
23	A	48	С	73	A	98	A
24	D	49	D	74	A	99	D
25	D	50	A	75	С	100	A

Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS
1	В	26	A	51	A	76	С
2	С	27	D	52	A	77	В
3	С	28	D	53	D	78	В
4	С	29	A	54	С	79	D
5	A	30	D	55	В	80	С
6	В	31	A	56	С	81	C
7	A	32	С	57	С	82	A
8	В	33	С	58	В	83	D
9	D	34	D	59	A	84	С
10	A	35	A	60	В	85	В
11	D	36	В	61	A	86	В
12	D	37	C	62	D	87	D
13	В	38	A	63	A	88	A
14	В	39	A	64	В	89	D
15	В	40	D	65	В	90	С
16	A	41	С	66	D	91	D
17	D	42	В	67	A	92	В
18	A	43	A	68	A	93	A
19	C	44	D	69	D	94	В
20	A	45	D	70	С	95	С
21	D	46	С	71	С	96	В
22	С	47	В	72	С	97	В
23	С	48	С	73	D	98	A
24	В	49	С	74	A	99	A
25	С	50	В	75	В	100	D

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Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS	Q.NO.	ANS
1	В	26	С	51	D	76	В
2	С	27	В	52	D	77	A
3	A	28	В	53	D	78	С
4	В	29	В	54	С	79	В
5	A	30	D	55	A	80	А
6	С	31	D	56	D	81	С
7	С	32	В	57	A	82	С
8	A	33	С	58	В	83	A
9	В	34	С	59	C	84	В
10	D	35	С	60	D	85	С
11	A	36	C	61	В	86	D
12	D	37	D	62	D	87	A
13	С	38	A	63	В	88	A
14	D	39	С	64	С	89	В
15	C	40	С	65	С	90	В
16	A	41	A	66	С	91	D
17	В	42	D	67	В	92	В
18	D	43	A	68	A	93	В
19	A	44	В	69	A	94	D
20	С	45	В	70	В	95	D
21	D	46	A	71	A	96	С
22	A	47	С	72	D	97	В
23	В	48	D	73	С	98	A
24	A	49	A	74	D	99	D
25	A	50	В	75	С	100	A