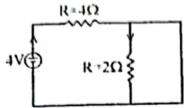
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1. What is the value of current passing through the resistor  $R = 2\Omega$  in the figure shown below?



(a) I A

(b) 0.5 A

(c) 1.5 A

(d) Zero

2. By increasing transmission voltage by a factor of 2, power transfer increases by a factor of:

(a) 1/4

(b) 2

(c) 4

(d) 8

3. The feeder is designed mainly from the point of view of:

- (a) its current carrying capacity
- (b) voltage drop in it

(c) operating voltage

(d) operating frequency

The current in a 3-phase unbalanced system are:

$$\overrightarrow{l_R} = (12+j2)A$$

$$\overrightarrow{I_y} = (12 - j12)A$$

$$\overrightarrow{I_B} = (-15 + j10)A$$

The phase sequence is RYB. The zero phase sequence component in R-phase is:

(a) (1.5 + j2.3) A

(b) (3+j1.33) A

(c) (2.8 + j6.7) A

(d) (1.5 + j0.15) A

5. The least expensive protection for low-voltage system is:

(a) isolator

(b) oil circuit breaker

(c) fuse

(d) air break circuit breaker

6. A two-pole alternator is running at 3000 R.P.M. Its angular velocity is:

- (a) 120π rad/s
- WAX THE
- (b) 100π rad/s

(c) 150π rad/s

(d) 200π rad/s

7. A synchronous motor running with over excitation acts as a capacitor when it is:

(a) fully loaded

(b) half leaded

(c) quarter loaded

(d) not loaded

8. A thermal generating station has an installed capacity of 20 MW and supplies a daily load of 18 MW for 16 hours and 9 MW for remaining 8 hours. The plant capacity factor for this station is

(a) 1

(b) 0.75

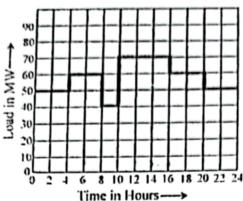
(c) 0.67

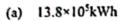
(d) 0.50

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9. Figure given below shows the daily load curve of a generating station. The units generated per day will be:





10. In a three phase system, the line losses are:

- (b) inversely proportional to coso
- (c) inversely proportional to cos²φ
- (d) directly proportional to cos<sup>2</sup> \$\phi\$
- In the power system, the resonance rarely occurs at the supply frequency because:

- (d) circuit capacitance is very small as compared to inductance
- 12. Which of the following is the correct expression for resonant frequency ω?

(a) 
$$\omega_r = \omega_n \sqrt{1 - \xi^2}$$

(b) 
$$\omega_r = \omega_n \sqrt{1 + \xi^2}$$

(c) 
$$\omega_r = \omega_n \sqrt{1 - 2\xi^2}$$

(d) 
$$\omega_r = \omega_\eta \sqrt{1 + 2\xi^2}$$

13. For which type of measurements, a piezo electric transducer is suitable?

14. A solar cell is a:

15. The negative real axis in G(s) H(s) plane for Nyquist plot corresponds to:

16.	The elements in the first column of Routh-Hurs	vitz table are:
10.		5, 7.5, 8, -6, 4
	How many poles of the system have positive re  (a) 4  (c) 2	al part? (b) 3 (d) 1
17.	An increase in the gain of critically damped system  (a) Over damped system  (c) Oscillatory system	(b) Under damped system (d) Critically stable system
18.	For the under damped second order system the (a) less than I (c) equal to I	(d) less than 2 but greater than I
19.	(a) Accuracy	(d) Sensitivity
20.	For maximum power transfer from an elect should be:  (a) very low  (c) equal to the internal impedance of the transducer	(b) very high (d) linearly increasing from very low values to very high values.
21	(a) Thermocouple	(d) Bourdon tube of a pressure gauge
22	reach 98% of the final value is:  (a) 1 s	(b) 2 s (d) 8 s
23	$\frac{dy(t)}{dt}$	$\frac{t}{t} + y(t) = \delta(t)$
;	<ul> <li>(a) e<sup>t</sup></li> <li>(c) e<sup>t</sup> u(t)</li> <li>24. An ammeter has a current range of 0 - 5A the range to 0 - 25A, we need to add a resit</li> <li>(a) 0.8 Ω in series with the meter.</li> </ul>	(b) e <sup>-t</sup> (d) e <sup>-t</sup> u(t)  A, and its internal resistance is 0.2 Ω. In order to change istance of:  (b) 1.0 Ω in series with the meter.  (d) 0.05 Ω in parallel with the meter.  P.T.
	(c) $0.04 \Omega$ in parallel with the meter.	4 !

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25.	cello	potentiometer is designed to measure up of e.m.f. 1.18 V obtains balance at 600 mm of the test cell is:	to abo	out 2V with a slide wire of 800 mm. A standard est cell is seen to obtain balance at 680mm. The
	(a)	1.00 V	(b)	1.34 V
	(c)	1.50 V	3.7	1.70 V
26.	The r		d to n	neasure 3-phase, 3-wire balanced or unbalanced
	(a)	239	(b)	2
	(c)	•	(q)	
27.	A sys	tem is said to be effectively grounded on	y if	$\frac{R_0}{K_1}$ and $\frac{X_0}{X_1}$ are respectively:
	(a)	$\leq 1$ and $\leq 3$	(b)	$\geq 1$ and $\geq 3$
	• •			$\geq 2$ and $\leq 2$
20	For a	d c series motor the relationship between	n sne	ed of motor at particular load(N), flux per pole
28.		nd back e.m.f. (E <sub>b</sub> ) is:	spc	
		$N_2 = E_{h_2} \phi_1$		$N_2 = E_{b_1} \phi_2$
	(a)	$\frac{N_2}{N_2} = \frac{E_{b_2} \phi_1}{E_{b_1} \phi_2}$	(b)	$\frac{N_2}{N_1} = \frac{E_{b_1}}{E_{b_2}} \frac{\phi_2}{\phi_1}$
		-01-72		N F. A.
	(c)	$\frac{N_1}{N_2} = \frac{E_{b_2}}{E_{b_1}} \frac{\phi_2}{\phi_1}$	(d)	$\frac{N_1}{N_2} = \frac{E_{b_1}}{E_{b_1}} \frac{\phi_1}{\phi_2}$
		$N_2$ $E_{b_1} \varphi_1$		Ν2 Ε <sub>β2</sub> Ψ2
29.	Selec	t the correct statement:		
	(a)	In an Induction Motor, actual speed is equal to synchronous speed.	(b)	In an Induction Motor, actual speed is always less than the synchronous speed.
	(c)	In an Induction Motor, actual speed is always greater than the synchronous speed.	(d)	None of the above.
20	Eanis	valent-Pi model is quite suitable for analy	zing t	he performance of transmission line of:
30.				150 km of length
	(a)	50 km of length	(b) (d)	
	(c)	30 km of length	` '	
31.	The d	l.c. motor, which can provide zero speed r		tion at full load without any controller is a:
	(a)	series motor	(b)	
	(c)	cumulatively compounded motor		
32.	Unde volta	no load condition, if the applied voltage to half the rated value:		an induction motor is reduced from the rated
	(a)	the speed decreases and the stator current increases.		both the speed and the stator current decreases.
	(c)		(d)	there is negligible change in speed but the stator current decreases.
33.	A 50	kVA, 3300 / 230 V single-phase transfo age of 3300 V. The nominal rating of the au	rmer itotra	is connected as an auto transformer with input insformer will be:
			(b)	53.5 kVA
	(a)	50.0 kVA 717.4 kVA		767.4 kVA
	(c)		_	WWW.nOTESMYfOOT.cOM P.T.O.
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	7.4	The n	o-load current in a transformer lags the ap	plied	vo	Itage by:		,
	34.		90°	(b)	ab	out 75°		ĺ.
		(- <i>y</i>	0°	(d)	ab	out 110°		9
		(-,						
	35.	In pov	wer transformers, core is made up of:	(b)	9	licon steel		
		(-,	Cast iron	(b)		owdered alloy		
		(c)	Ferrite					
	36	The v	oltage applied to a transformer primary i	s inc	rea	sed keeping V/f cor	istant.With the	s, the core
	36.	loss w	vill:					
T.		(a)	decrease and magnetizing current Im	(b)	i	nerease and Im will a	ilso increase.	
			'11 i				esmain constan	
٠.	۵	(c)	remain constant and I <sub>m</sub> will also remain	(d)	1	ncrease and Im Will	Cinain Constan	
4			constant.					200/ 160
		When	the supply voltage to a 3-phase squi	rrel	cag	e induction motor	is reduced by	y 20%, the
	37.	maxin	num torque will decrease by:					
			10%	(b)		20%		
		(a) (c)	36%	(d)	, (	40%		
	38.	The d	lummy coil in a d.c. machine is used to:			reduce armature rea	ection.	
		(a)	eliminate reactance voltage.		)	reduce armatare red reduce harmonics g	renerated in an	nature.
		(c)	provide mechanical balance to the	(d)	)	reduce natmomes g	,0	
			armature.					
		A cto	r-delta starter is equivalent to an auto-tra	nsfo	me	er starter with a tap	ong or:	•
	39.			(b	)	57.73%		
		(a)	86.6%			58%		
		(c)	57%					
	40.	The	m.m.f. produced by the rotor currents of	a 3-p	has	e induction motor.		tor m.m.f.
	40.	(a)	rotates at the speed of rotor in the air gap	. (t	))			h respect to
		(c)	a alia speed with respect to	(0	J)		ious speed wit	i respect to
		-	•			rotor.		-
			stator m.m.r.  ee identical bulbs are connected in ser	ies a	ınd	supplied with a 3	100 V battery	. The current
	41.	Thre	ee identical bulbs are connected in secund the second bulb, if the battery is sup	plyin	g c	ne ampere current,	15:	
				(	b)	2.0 A		
			1.5 A			1.0 A		
		(c)	1.20 A	`	-,	1 60 6 70	ales without ar	y alteration in
	42.	A 3	-phase squirrel cage induction motor has	its s	tato	or rewound for o-pe	nes william	•
	42.	the	rotor. The motor would now run at a spe					
			< 1000 rpm	(		< 1500 rpm		
				(	(d)	zero rpm		
		(0)	< 1200 rpm -phase induction motor takes 60 kW out - phase induction motor takes 60 kW out		vhi	ch 1 kW is wasted	as stator losse:	s. What will be
	43.	. A3	-phase induction motor takes 60 kW out	tor a	t a	slip of 3%?		
	,	the	mechanical power developed by this		(h)	57.23 kW		
		(a)	) 60.55 kW		(o)	50.25 kW		
		(c	) 55.20 kW		(a)	JU,25 H		P.T.O
			= 59 (0.97)	6				
		23	2 73 (677)					
		7/3	2					

- 44. Stator and rotor leakage reactance of a three-phase induction motor:
  - (a) improve its operating power factor.
- (b) decrease its operating power factor.
- (c) improve its starting torque.
- (d) have no effect on motor performance.

- 45. If the iron and copper losses of a transformer on full load are given as P<sub>1</sub> and P<sub>2</sub> respectively, then the maximum efficiency occurs at 50% full load when:
  - (a) P1:P2=1:6

(b)  $P_1: P_2 = 1:2$ 

(c) P1: P2 = 1:4

- (d) P1: P2 = 1:5
- 46. Damper winding is provided in synchronous motor to:
  - (a) provide maximum torque
- (b) prevent hunting

(c) increase speed

- (d) reduce speed
- 47. If the field resistance of a dc shunt generator is increased beyond its critical value, the generator:
  - (a) output voltage will exceed its nameplate rating
- (b) will not build-up any voltage
- (c) may bum out if loaded up-to its rating
- (d) power output may exceed its name-plate rating
- 48. Superposition Theorem is not applicable for:
  - (a) Voltage calculation

(b) Bilateral elements

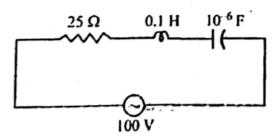
(c) Power calculations

- (d) Passive elements
- 49. The force experienced by a conductor of length L, carrying a current I, placed in a magnetic field B is given by (conductor is perpendicular to B):---
  - (a)  $\frac{B}{IL}$

(b)  $\frac{IL}{B}$ 

(c) BIL

- (d)  $\frac{I}{BL}$
- 50. In the circuit shown the frequency of voltage source is variable. At f = 0 and  $f = \infty$ , the magnitude of current will be:





(a) 0 A, 8 A

(b) 0 A, 0A

(c) 8 A, 8 A

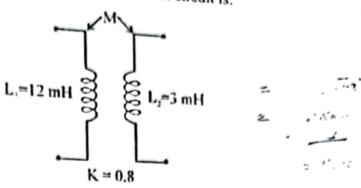
- (d) 8 A, 0A
- 51. For a coil having N number of turns and flux linkage φ, the induced e.m.f. in the coil is given by:
  - (a)  $emf = \phi \frac{dN}{dt}$

(b)  $emf = t \frac{dN}{d\phi}$ 

(c)  $emf = N \frac{dt}{d\phi}$ 

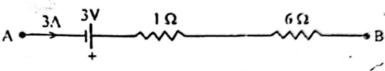
(d)  $emf = N \frac{d\phi}{dt}$ 

Mutual inductance between two coils as shown in circuit is: 52.



- (a) 4.8 mH
- (c) 4 mH

- (b) 15 mH
- (d) 24 mH
- Figure shows a part of a closed circuit. What is the potential difference between points A and B?



- (a) 6 V
- (c) 24 V

- (b) 18 V
- (d) 12 V
- The quantity of charge that will be transferred by a current flow of 10 A over 1-hour period is:

  - (c) 3.6×10<sup>4</sup> C
- 0= clit =
- (b) 2.4×10<sup>3</sup> C
  - (d) 1.6×10<sup>2</sup> C 2
- A wire having resistance R is drawn through a dye so that its length is increased  $\frac{2}{3}$  times. The new value of the resistance will be:
  - (a) 3 R

(b)  $\frac{3}{2}$  R

- (d)  $\frac{2}{3}R$
- A flux of 0.5 mWb links a coil of 400 turns. If the flux is reversed in 0.2s, then the average value of 56. the induced voltage in the coil will be:
  - (a) 10 V

(c) 2 V

- Power transmission lines are transposed to reduce: 57.
  - (a) Skin effect

(b) Ferranti effect

(c) Transmission loss

- Interference with neighbouring communication lines
- The voltage across R and L in a series RL circuit are found to be 200 V and 150 V respectively.
- The r.m.s. value of the voltage across the series combination is:
  - (a) 250 V

(b) 360 V

(c) 450 V

(d) 400 V

- 59. Time constant for RL series circuit is given by:
  - (a)  $\frac{R}{L}$

(b)  $\frac{1}{RL}$ 

(c) RL .

- (d)  $\frac{L}{R}$
- 60. What will be r.m.s. value of a rectangular wave with amplitude 10V (min. 0V, max. 10V)?
  - (a) 5√2 V

(b) 5 V

2 10

(c) 7.7 V

- (d) 10 V
- 61. Noise generated in a resistor is also known as:
  - (a) Partition noise

(b) White noise

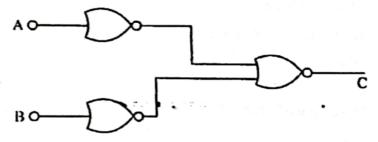
(c) Thermal noise

- (d) Shot noise
- 62. A notch filter is sometimes used in communication receivers to:
  - (a) reduce receiver gain at some specific frequency.
- (b) increase receiver gain at some specific frequency.
- (c) make selectivity more precise.
- (d) none of these.
- 63. Number of binary bits required to represent hexadecimal digit is:
  - (a) 3

(b) 4

(c) 8

- (d) 16
- 64. The circuit given below is functionally equivalent to:



(a) OR gate

(b) NOR gate

(c) AND gate

- (d) EX-OR gate
- 65. De Multiplexer is also known as:
  - (a) Data selection

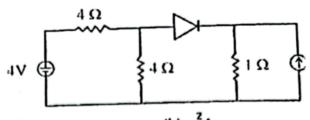
(b) Data distributor

(c) Flip flop

- (d) Encoder
- 66. A BJT is said to be operating in the saturation region if:
  - (a) both junctions are reverse biased.
- (b) Base emitter junction is reverse biased and base collector junction is forward biased.
- (c) Base emitter junction is forward biased and base collector junction is reverse biased.
- (d) both the junctions are forward biased.



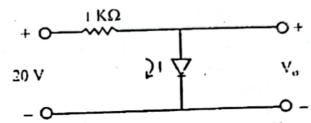
67. What is the value of current I flowing through the ideal diode?



- (a)  $\frac{8}{3}$ A
- (c)  $\frac{3}{8}$ A

- (b)  $\frac{z}{3}\Lambda$
- (d)  $\frac{3}{2}$ A

68. For the given circuit, find I & Vo for ideal diode condition:



- (a) 20 mA, 20 V
- (c) 0 mA, 20 mV

- (b) 20 mA, 20 mV
- (d) 20 mA, 0 V

69. The output of a particular Op-Amp increases 8V in 12 μs, the slew rate is:

(a) 90 V/μs

(b) 0.67 V/μs

(c) 1.5 V/μs

(d) 20 V/μs

70. In an Op-Amp if  $A_d = 3500$  and  $A_{cm} = 0.35$ , then the CMRR is:

(a) 1225

(b) 10000

(c) 80 dB

(d) Both (a) and (c)

71. The output of a NAND gate will be low if two inputs are:

(a) 11

(b) 01

(c) 10

(d) 00

72. If the ac input to half-wave rectifier is an r.m.s. value of  $\frac{400}{\sqrt{2}}$  volts, the diode PIV rating is

(a)  $400 \times \sqrt{2} \text{ V}$ 

(b)  $\frac{400}{\sqrt{2}}$  V

(c) 400 V

(d) 200 V

73. When bipolar junction transistor (BJTs) are used in digital circuits they usually operate in:

(a) breakdown region

(b) active region

(c) linear region

(d) saturation and cut off regions

74. If a transistor has a  $\beta$  of 250 and a base-current of 20  $\mu$ A, then emitter current equals:

Ļ

(a) 5 mA

(b) 5.02 mA

(c) 50 mA

(d) 0.5 mA

. <u>l</u>e

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- The binary equivalent of the decimal number 368 is: 75.
  - (a) 110110000

(b) 101110000

111100000

- (d) 111010000
- The resistance of a wire is  $5\Omega$  at  $50^{\circ}$ C and  $6\Omega$  at  $100^{\circ}$  C. The resistance of the wire at  $\Omega$  C will
  - (a) 2Ω

(b) 1 Ω

(c) 4 \O

- (d) 3Ω
- The greatest length of a copper wire that can hang without breaking would be [ Breaking stress =  $7.2 \times 10^7$  N/m<sup>2</sup>: Density of copper = 7.2 g/cc; g = 10 m/s<sup>2</sup>]:
  - (a) 10 m

(b) 100 m

(c) 1000 m

- (d) 10,000 m
- A ship of mass 3×10'kg which is initially at rest can be pulled through a distance of 3 m by means of a force of 5×10<sup>3</sup> N. If there is no water resistance, then the speed attained by the ship will be:
  - (a) 0.1 r 's

(b) 1 m/s

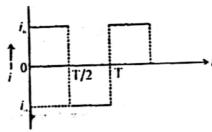
(c) 10 r./s

- (d) 0.01 m/s
- Two masses, one 'n' times heavier than the other, have equal kinetic energy. The ratio of their momenta (p2/p1) would be:
  - (a)  $\sqrt{n}$

(b) n

(c)  $n^{3/2}$ 

- (d)  $n^2$
- Find the value of irms for the variation of current as given below:



(a)  $i_{cms} = i_0 / 4$ 

(b)  $i_{rms} = i_0 / 2$ 

(c)  $i_{rms} = 4i_0 / 3$ 

- (d)  $i_{rms} = i_0$
- An inductance coil of 0.50 H and resistance 100  $\Omega$  is connected to a 220V, 50 Hz a.c. supply. What is the time lag between the voltage maximum and current maximum?
  - (a) 3.2 ms

(b) 3.0 ms

(c) 1.57 ms

- (d) 2.57 ms
- A nucleus with z = 92 emits the following in a sequence:

α, α, β-, β-, α, α, α, α, β-, β-, α, β+, β+, α.

The z of the resulting nucleus is:

(a) 76

(c) 82

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83.	A potentiometer wire has a length of 5m a resistance box are connected in series with it. as to get a potential gradient of 0.1 V/m will be	nd resistance of 2 $\Omega$ /m. A cell of e.m.f. 5V and a The value of resistance to be introduced in the box so the control of the
	(a) 55 Ω	(b) 90 Ω
	(c) 115 Ω	(d) 172 Ω
84.	Bomb calorimeter is used to estimate:	to the value of manager fuels
	(a) calorific value of solid and liquid fuels	<ul><li>(b) calorific value of gaseous fuels.</li><li>(d) composition of gaseous fuels.</li></ul>
	<ul><li>(c) composition of solid and liquid fuels.</li></ul>	(d) composition of gaseous fuers.
85.	The luster of a metal is due to:	
	(a) presence of free electrons	(b) its chemical inertness
	(c) its hydraulic washing	(d) its high density
86.	What chemicals can be used to make a buffer	of $pH = 10$ ?
60.	(a) CH <sub>3</sub> COOH + CH <sub>3</sub> COONa	(b) NH <sub>4</sub> OH + NH <sub>4</sub> Cl -
	(c) H <sub>3</sub> PO <sub>4</sub> + CH <sub>3</sub> COONa	(d) CH <sub>3</sub> COOH + NH <sub>4</sub> Cl
87.	Which of the following is not a greenhouse g	as?
• • •	(a) CO <sub>2</sub>	(p) CO
	(c) CH <sub>4</sub>	(d) Water ,
88.	Which of the following is not a disinfectant?	
00.	(a) CaOCi2	(b) CINH <sub>2</sub>
	(c) O <sub>3</sub>	(d) Na <sub>2</sub> CO <sub>3</sub>
89.	Which of the following metal forms a volati	le oxide film?
89.	(a) Al	(b) Pb
	(c) Au	(d) Mo
••	Nylon-6 is prepared by the self-polymerizat	ion of:
90.		(b) ω-Amino undecanoic acid
	(a) Caprolactam (c) Hexa-methylene diamine	(d) Adipic acid
	Which of the following functional groups is	of an aldehyde?
91.	Which of the following functional groups is	н
	(a) — OH	$\begin{array}{ccc} H & & \\ \text{(b)} & -C = 0 \end{array}$
	(a) — 311	-
	(c) _ L_	(d) - C-OH
	(e) -E-	20-011
92.	Electrolysis of water produces	
	(a) OH-and O <sup>2</sup>	(b) H <sub>2</sub> and H <sub>3</sub> O <sup>+</sup>
	(c) H <sub>3</sub> O <sup>+</sup> and OH <sup>-</sup>	(d) H <sub>2</sub> and O <sub>2</sub>
		***************************************

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- The value of 4 cos12° cos48° cos72° is: 93.
  - (a) cos 36°

(b) cos72.º

(c) sin36°

- (d) sin72°
- The value of k for which the points (k, 2-2k), (-k+1, 2k) and (-4-k, 6-2k) are collinear is: 94.
  - (a) any value of k

(b) k = -1 or  $k = \frac{1}{2}$ 

(c)  $k = 1 \text{ or } k = -\frac{1}{2}$ 

- (d) k=1 or k=1/2
- If  $\cos 40^\circ \sin 40^\circ = x$ , (x < 2), then value of  $\cos 80^\circ$  is
  - (a)  $x\sqrt{2-x^2}$

(b) 2r

(c)  $-x\sqrt{2-x^2}$ 

- (d)  $x + \sqrt{2 x^2}$
- The maximum value of  $\frac{\log_e x}{x}$  for x > 0 is
  - (a) e

(c)  $e^2$ 

- 97. Value of  $\int_{-3}^{3} \frac{x^2 \sin x}{1+x^6} dx$  is
  - (a) 0

(c) 2

- 98. Let  $\vec{a} = 2\hat{\imath} + 3\hat{\jmath} \hat{k}$  and  $\vec{b} = \hat{\imath} 2\hat{\jmath} + 3\hat{k}$ , then the value of  $\lambda$  for which the vector  $\vec{c} = \lambda \hat{i} + \hat{j} + (2\lambda - 1)\hat{k}$  is parallel to the plane containing  $\vec{a}$  and  $\vec{b}$  is:
  - (a) 1 <sup>^</sup>

(b) 0

- (d) 2
- The equation of tangent to the circle  $x^2 + y^2 + 4x 4y + 4 = 0$  which makes equal intercepts on  $x^2 + y^2 + 4x 4y + 4 = 0$ positive quadrant is given by:
  - (a) x + y = 1

(b)  $x + y = \sqrt{2}$ 

(c)  $x + y = \frac{1}{\sqrt{5}}$ 

- (d)  $x + y = 2\sqrt{2}$
- 100. If the percentage error in the edge of a cube is I, then the error in its volume is:
  - (a) 1%

(b) 2%

(c) 3%

(d) 4%

z (I)

## ALIGARH MUSLIM UNIVERSITY, ALIGARH Answer Key B.E.( ELECTRICAL ) Admission Test 2019-20 SERIES: B

	_			
Q.No.		swer		
1		D C		
2		<u>C</u>	-	
3		A D	1	
4		$\frac{D}{C}$	1	
3	_	<del>D</del>	1	
- 0	_	D	1	
1 2 3 4 5 6 7 8		A B C B D B	1	
9	_	<u> </u>	1	
10	_	$\frac{\alpha}{c}$	1	
	$\vdash$	<del>D</del> -	1	
12	-	$\frac{\tilde{c}}{c}$	1	
11 12 13	$\vdash$	B	1	
14	$\vdash$	<u> </u>	1	
15	$\vdash$	<del></del>	1	
15 16	+-	A C D C B A B A B A B	1	
	╀	R	-	
17	╀	<u> </u>	┨	
18 19	╀	$\frac{\Lambda}{R}$	$\dashv$	
19	╀	<del>-</del>	$\dashv$	
20	╀	C B	$\dashv$	
21	╀	_ <del>_</del>	$\dashv$	
22	╀	C D	$\dashv$	
23	╀	뉴	$\dashv$	
24	+	D B	$\dashv$	
25	+	_ <u>B</u>	$\dashv$	
26	+	В	$\dashv$	
27	4	A	$\dashv$	
28	4	_ <u>A</u>	$\dashv$	
29	4	<u>B</u>		
29 30	$\perp$	D		
31	$\perp$	D		
32		D		
32 33 34		B D D D D B		
34		В	_	
35	$\neg$	В	. '	
35 36	$\neg$	D		
37	$\neg$	С		
38		D C		
39		В	1	
40		B	3	

			-			
(	Q.No. An		swer	1		
	41		D	1		
	42		Λ	1		
	43		В	4		
	44		В	-		
	45		С	-		
	46	_	В	-1 %		
	47	_	В	-		
	48	<u> </u>	C	4		
L	49	_		-		
L	50	1	В			
L	51	<b>├</b>	D	$\dashv$		
L	52	1	<u>A</u>	$\dashv$		
L	53	1	В	-		
L	54	1	В	$\dashv$		
L	55	4	D	$\dashv$		
L	56	4	С			
l	57	1	D	$\dashv$		
l	58	4	<u>A</u>	$\dashv$		
١	59	-1-	D	$\dashv$		
١	60		A			
	61	4	C A B			
	62	4				
	63	4				
	64		С			
	65	_	В			
	66	_	I			
	67	$\Box$	_ E	3		
	68		I	2		
	69		1	В		
	70		1	$\Box$		
	71			<u>A</u>		
	72			C	١	
	73			D	١	
	74			В	ŀ	
	75			В	١	
	70	3		С	ا	
	7	7		С		
	70 71 72 73 74 75 76 77			Α		
	79			Α		
	8	0		D A C D B B C C A A D		
					-	

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Q.No.	Answer		
18	A		
82	В		
83	В		
8.4	A		
. 85	A		
86	В		
87	В		
88	D		
89	D		
90 1	A		
91	B		
92	D		
93	A		
94	В		
95	A		
96	В		
97	A		
98	A		
99	D		
100	С		

COORDINATOR DATED: 13.06.2019



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