Department of E and E Engineering NMAMIT, Nitte

Q.No.	MULTIPLE CHOICE QUESTIONS	Answer
1.	In the case of mesh analysis, the equations in each loop is written by applying	
	KVL b. KCL c. both KCL and KVL d. None of these	a
2.	While calculating voltage using nodal analysis, it was found that the voltages at nodes V_1 and V_2 were -5V and -3V respectively. Then, the direction of current between those two nodes would be a from V_2 to V_1 b from V_1 to V_2	200
3.	none of these Peak factor is defined as of the alternating quantity	a
3.	a. Maximum value/RMS value b. RMS value/Maximum value c. RMS value/Average value d. Average value/RMS value	a
4.	If the instantaneous value of current in a circuit is represented using the equation, $i = 100\sin 120\pi t$ amperes, its RMS value is given by	d
5.	For a certain load, if the apparent power is 195.2 VA and the reactive power is 125 VAR, then the true power is a.70.2 W b. 320.2 W c. 150W d. Data is insufficient	c
6.	For a three phase, three wire system, the two Wattmeter read 4000 watts and 2000 watts respectively. Then, the power factor of the circuit is a.1 b.0.5 c. 0.866 d.0.6	c
7.	In a star connected three phase AC circuit — $ a. \ V_{ph} = \sqrt{3} V_L \ ; I_L = I_{ph} \qquad b. \ V_L = \sqrt{3} V_{ph} \ ; I_L = I_{ph} \qquad c. \ V_L = V_{ph} \ ; \ I_L = \sqrt{3} I_{ph} $ $ d. \ V_L = \sqrt{2} \ V_{ph} \ ; \ I_L = I_{ph} \qquad e. \ V_L = V_{ph} \ ; \ I_L = \sqrt{2} \ I_{ph} $	b
8.	Which of the following statements is not the definition of power factor (pf)? a. pf=cos of the angle between voltage & current b. pf=resistance/impedance c. pf=active power/apparent power d. pf=apparent power/active power	d
9.	The rating of a transformer is specified in a) kW b) kVAR c) HP d) Kva	d
10.	Turns ratio of the transformer is directly proportional to a) Resistance ratio b) power ratio c) Voltage ratio	c

	d) Not proportional to any terms	1000
11.	The full-load iron loss of a transformer is 3200 W. At 75% of full load, the iron loss will be a) 3200W b) 6400W c) 1800W d) 5600W	a
12.	Transformer core is generally made of a) silicon steel b) aluminium c) copper d) wood	a
13.	A 4 pole, lap wound, DC generator has a useful flux of 0.07 Wb per pole. Calculate the generated e.m.f. when it is rotated at a speed of 900 r.p.m. with the help of prime mover. Armature consists of 20 slots each having 20 conductors. a. 840V b. 420V c. 210V d. 21V	b.
14.	The number of parallel paths in a 8 pole lap wound DC generator is a. 2 b. 16	
15.	c. 8 d. 4 A 4 pole, lap wound DC motor drawing an armature current of 20 A has 360 conductors. If the flux per pole is 0.015 Wb then the gross torque developed by the armature of motor is a. 10.23 N-m b. 15.56 N-m c. 17.17 N-m d. 19.08 N-m	с.
16.	Alternator works on the following principle. a. Self and mutual induction b. Mutual induction c. Faraday's law of electromagnetic induction d. None of the above	
17.	Which one of the following statements is true? I. 3 phase induction motor converts direct current electrical energy into mechanical energy II. 3 phase induction motor converts alternating current electrical energy into mechanical energy III. 3 phase induction motor converts mechanical energy into alternating current electrical energy IV. 3 phase induction motor converts mechanical energy into direct current electrical energy a) (i) b) (ii) c) (iii) d) (iv)	b
18.	The part of the 3 phase induction motor which is a hollow cylindrical core having slots in its inner surface to house windings is termed as. a) stator b) rotor c) shaft d) brush	a
19.	Fusing factor is defined as the ratio between	

	(b) maximum fusing current and rated current	
	(c) minimum fusing current and rated current	
	minimum fusing current and rated voltage	
20.		
	(a) to provide as low resistance possible to the ground	
	A THE CONTROL OF THE STATE OF T	
	(b) to provide a high resistance possible to the ground	
	(c) to provide flow of positive, negative and zero sequence current	
	none of the above	a
21.	In the case of nodal analysis, the equations at each node is written by applying	
	KVL b. KCL c. both KCL and KVL d. None of these	ь
22.	While calculating current using mesh analysis, it was found that the current in a	
	particular branch containing 4 Ω resistor is -2A. This means that	
	a. the 4 Ω resistor is releasing (generating) 2 A current since the current is	
	negative	
	b. the assumed direction of current in that resistor and the actual direction of	
	flow of current are opposite to each other	
	c. the 4 Ω resistor doesn't allow 2A current to flow through it	
	none of these	b
23.	The analog electrical meters read the of the quantity.	
	a. Average value b. RMS value c. instantaneous value d. maximum	
-	value	b
24.	Form factor is defined asof the alternating quantity	
	a. Maximum value/RMS value b. RMS value/Maximum value	
	c. RMS value/Average value d. Average value/RMS value	c
25.	Read the following statements carefully:	
121610		
	Power factor is the ratio of reactive power to apparent power Power factor is the ratio of the resistance to the impedance of the circuit	
	iii. Power factor is the cosine of the angle between voltage and current	
	THE THE WHO CAN BE AN ADDRESS OF THE	
	Now, out of the above statements, which statements are TRUE? a. Statements i and ii b. Statements ii and iii c. Statements i and iii	
	d. All the three statements	b
26.		
	a.Reactive Power b. Active Powerc. Apparent Power d. None of these	
	Section 2 and the section of the sec	b
27.		
	the inductance of the circuit is	
	a.50 H b. 0.02H c. 637mH d. 0.159H	d
28.	In a balanced three phase star circuit, neutral current is ———	
	a. Infinity	
	b. Zero	b

	c. One	
	None of the above	
29.	The function of the transformer is to a) Convert AC to DC b) Convert DC to AC c) Step down or up the DC voltages and currents	d
30.	d) Step down or up the AC voltages and currents A 100V, 50Hz source is connected to the primary of a transformer having 20 turns. The maximum flux density in the core is 1Wb/m². The cross-sectional area of core is a) 0.152m² b) 0.345m² c) 0.056m² d) 0.0225m²	d
31.	A single phase transformer has 400 primary and 1000 secondary turns. The net cross sectional area of the core is 60 cm ² . If the primary is connected to a 500V, 50 Hz source what is the voltage induced in the secondary? a) 950V b) 1125V c) 840V d)1250V	d
32.	Mutual inductance between two magnetically coupled coils depends on a) Permeability of the core material b) Number of turns of the coil c) Cross sectional area of their common core All of the above	d
33.	Lap winding is suitable for voltage d.c. generators applications. a. Low b. High c. Moderate d. Any	a.
34.	DC shunt motor is used in a. Cranes b. Lathes c. Hoists d. None of the these	b.
35.	Which of the following part distinguishes a DC motor from an AC motor? a. Winding b. Shaft c. Commutator d. Stator	c.
36.	Which kind of rotor is most suitable for turbo alternators which are designed to run at high speed? a. Salient pole type b. Non salient pole type c. Both (a) and (b) above d. None of the above.	b
37.	The types of rotors in 3 phase induction motor are a) Salient pole & non-salient pole b) Salient pole & slip ring c) Squirrel cage & slip ring d) Squirrel cage & smooth cylindrical	c
38.	In a 3 Phase Induction motor, which type of the rotor winding is short circuited at both ends to two copper end rings a) Squirrel cage b) Slip ring c) Squirrel cage & slip ring d) Squirrel cage & phase wound	
39.	The fuse material must have low	b

(a) conductivity	
(b) melting point	
(c) permittivity	
none of these	
40. The most commonly used wires are	
(a) C.T.S	
(b) V.I.R	
(c) P.V.C	
Flexible	c
41. Read the following statements carefully:	
 In an electrical circuit, the terms mesh current and branch current are 	
not one and the same.	
ii. In an electrical circuit, both mesh current and branch current mean the	
same thing. So, they could be used interchangeably.	
Out of the above two statements, which of them is FALSE?	
Statement i b. Statement ii c. Both statements i and ii d. Neither i nor ii	ь
42. SI unit of power is	
a. joule b. tesla c. watt d. None of these 43. Resistance/Impedance is equal to	С
43. Resistance impedance is equal to	
a. Form factor b. Peak factor c. Power factor d. None of these	c
44. A complete set of positive and negative values of an alternating quantity is known as	
time period b. amplitude c. frequency d. a cycle	d
45. In a balanced three phase AC circuit, the sum of all three generated voltages at any given instant is	
5.10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
a. Infinity (∞) b. Zero (0) c. One (1) d. None of the above	b
46. Which of the following statement can be used to calculate the power in a three phase circuit?	
circuit :	
a. $P=3V_{Ph}I_{Ph}cos\Phi$ b. $P=\sqrt{3}V_L$ I_L $cos\Phi$ c. either $P=3V_{Ph}$ I_{Ph} $cos\Phi$ or $P=\sqrt{3}$ V_L I_L	
cosΦ d. None of The Above	c
47. In a phasor diagram, the relationship between the voltage and its current when a pure	
inductive circuit is energized by an AC supply is	
 Voltage leads its current by 90° 	
b. Voltage lags its current by 90°	
Voltage lags its current by angle in between 0° and 90°	
Voltage leads its everent by analy in between 00 and 000	
Voltage leads its current by angle in between 0° and 90° 48. In a pure inductive circuit, the ratio of voltage to current (V/I) is referred to as	a
a.Resistance b. Admittance c. Inductive Reactance d. None of these	c

49.	A transformer has 100 primary turns and 400 secondary turns if the primary voltage is 200V then the secondary voltage is a) 80V b) 800V c) 1600V d) 2400V	b
50.	The efficiency of a transformer is maximum when a) copper loss equals hysteresis losses b) copper loss equals iron loss c) copper loss equals eddy current losses d) hysteresis loss equals eddy current losses	b
51.	In a 50kVA transformer, the iron loss is 500W and full load copper loss is 800W, the efficiency of the transformer at full load 0.8 p.f lagging is a) 92% b)89.56% c)96.85% d)79.82%	c
52.	If the number of turns of a coil is increased, its inductance is a) Increased b) Decreased c) Remains same d) None of these	A
53.	The job of the commutator in DC generator is a. Converts DC to AC b. Convert AC to DC c. Increase output voltage d. Reduce sparking at brushes	b.
54.		
55.	A 220 V, DC motor draws an armature current of 20 A. Its armature resistance is 0.6 ohm. Then the back emf in the motor will be a. 195 V b. 202 V c. 208 V d. 215 V	c.
56.	The frequency of voltage generated in an alternator depends on a. number of poles b. rotative speed c. number of poles and rotative speed d. number of poles, rotative speed and type of winding.	c
57.	The rotor conductors of the 3 phase induction motor is made up of a) Iron bars b) Aluminum or copper bars c) Steel bars d) rubber bars	b
58.	In a 3 Phase Induction motor, the rotor winding can be short circuited through external variable resistance in case of a) Squirrel cage type b) slip ring type c) both d) none	b
59.	Two-way control of lamp is also called (a) staircase	
	(b) godown	a

	(c) flexible	
	none of the above	
60.		
100000		
	(a) cleat	
	(b) casing-capping	
	(c) conduit	
	1-205	
	surface	c
61.	If the instantaneous value of voltage in a circuit is represented using the equation, $e = 120\sin 50\pi t$ volts, its frequency is	
	120sin50xt voits, its frequency is	
	25 Hz b. 50 Hz c. 120 Hz d. None of these	a
62.	Form factor of a sinusoidal voltage is	
	a. 0.707 b. 1.414c. 1.11 d. None of these	c
63.		
(34.86.5)	powered by an AC supply is	
	a. Data is insufficient b. Depends on the RMS value of voltage and	
	current	
	c. Zero d. One watt	c
64.	Voltage drop across a certain element in a 1- ϕ circuit is given by e = 28.28 sin (100 π t-	
	10°) V. Then the circuit could be	
	a pure resistor b. a pure inductor c. a pure capacitor d. a coil e.	
	an R-C circuit	e
65.	Power factor of a pure inductive circuit is	
	a. 1 b. 0 c. in between 0 and 1 d. more than 1	b
66.	The Inductive reactance is measured in	O
N. SOLVEN		
	a. henry b. farad c. ohm d. None of these	c
67.	When a pure resistive circuit is energized by an AC supply, the angle between the	
	voltage and its current is	
	a. 90° b. 0° c. In between 0° and 90° d. None of these	b
68.	In a series R-C circuit, to increase the phase angle above 45°, the following condition	
1999	should exist	
	$a.R = X_c \qquad \qquad b. \ R < X_c \qquad \qquad c. \ R > X_c \qquad \qquad d. \ R \ge X_c$	ь
69.	The full-load copper loss of a transformer is 3200 W. At 75% of full load, the	c
529900	copper loss will be	159
	a) 3200W	
	b) 6400W	
	c) 1800W	
70.	d) 5600W A 2000/200V, 20kVA ideal transformer has 66 turns in the secondary. The	b
10.	number of primary turns is	Ü
	a) 440	
	b) 660	
	c) 550	

	d) 330	
71.	The emf induced in a coil is the rate of change of magnetic flux linkages. a) Directly proportional to b) Inversely proportional to c) Independent of None of these	a
72.	a) Decreases with increasing cross-sectional area of material b) Increases with increasing cross-sectional area of material c) Does not vary with increasing cross-sectional area of material d) None of the above	a
73.	A 4-pole generator having wave-wound armature winding has 50 slots, each slot containing 20 conductors. What will be the voltage generated in the machine when driven at 1500 rpm assuming the flux per pole to be 3mWb? a. 300V b. 75V c. 500V d. 150V	d.
74.	Wave winding machines are used in currents applications. e. Low f. High g. Moderate h. Any	a.
75.	For the construction of the armature of a DC machine, the best suited material is a. Cast iron b. Silicon Steel c. Carbon d. All of these	b.
76.	If A is the number of parallel paths and P is the number of poles, then the number of parallel path in lap winding and in wave winding is b. $A = P$, $A = 2$ c. $A = 2P$, $A = P$ d. $A = 2$, $A = P$ e. $A = P$, $A = 2P$	a.
77.	When a three phase supply is given to the three windings of the stator of a 3 phase induction motor, a) A rotating magnetic field of constant magnitude and rotating with synchronous speed is produced. b) A rotating magnetic field of constant magnitude and rotating with variable speed is produced c) A stationary magnetic field of constant magnitude is produced d) Magnetic field is not be produced	ିଷ
78.	When a three phase supply is given to the three windings of the stator of a 3 phase induction motor, the magnitude of the rotating magnetic field is a) \varnothing_m b) $2 \varnothing_m$ c) $1.5 \varnothing_m$ d) $2.5 \varnothing_m$	c
79.	The current causing an electric shock is called (a) high current (b) leakage current (c) insulating	557
80.	none of these Electric shock is described as electrical current flowing through the (a) the ground (b) the body	b

	(c) the air	
	(d) the water.	
81.	Peak factor of a sinusoidal current is	
1,500,500	The state of the s	
92	a. 0.707 b. 1.414c. 1.11 d. None of these	b
82.	If an alternating current has its RMS value 5 A, frequency 60 Hz, its instantaneous value is given by	
	a. $i = 5 \sin 377t \text{ A}$ b. $i = 5/\sqrt{2} \sin 377t \text{ A}$ c. $i = 5\sqrt{2} \sin 377t \text{ A}$ d. None of these	c
83.	According to KCL as applied to junction in a network	
0.7570.70		
	a) Total sum of currents meeting at the junction is zero	
	b) No current can leave the junction without some current entering itc) Net current flow at the junction is positive	
	d) Algebraic sum of current meeting at the junction is zero	d
84.	The power factor of an AC circuit is given by	
	management on a swar at money party and a secondary	
	a) Cosine of the phase angle b) Tangent of the phase angle	
	c) The ratio of R/XL	
	d) The ratio of XL/Z	a
85.	If a 100V, 50Hz, single phase AC supplies a current of 2A to a pure capacitive circuit,	
	the capacitance of the circuit is	
	a.50 F b. 637mF c. 63.7µF d. 0.159F	c
86.	The capacitive reactance is measured in	
	a.ohm b. farad c. henry d. None of these	a
87.	A 1.2 k Ω resistor is connected in series with a 15mH inductor and energized by a	
	10V, 10 kHz, 1-φ supply. Then, the circuit impedance is	
	a.1526 Ω b. 152.6 Ω c. 1200 Ω d. 942 Ω	
88.	In a certain series circuit, if the impedance is $(4-j6) \Omega$, it means that	а
	a. $R=4~\Omega;~X_L=6~\Omega$ b. $R=6~\Omega;~X_L=4~\Omega$ c. $R=4~\Omega;~X_C=6~\Omega$	
	d. $R = 6 \Omega$; $X_C = 4 \Omega$	e
89.	The secondary voltage of a 10kVA transformer with load current of 10A is	c
	a) 10kV	
	b)100kV	
	c) 1kV	
	d) none of the above	
90.	In a given transformer for given applied voltage, which of the following	c
	losses remain constant irrespective of load changes?	
	a) Friction and windage losses	
	b) Copper losses	
	c) Hysteresis and eddy current losses d) Cannot be determined	
91.	Strength of an electromagnet can be increased by	d
20,000	a) Increasing the cross-sectional area	(A)

	b) Increasing the number of turns	
	c) Increasing current supply	
	All of the above	
92.	The magnetic reluctance of a material a) Decreases with increasing cross-sectional area of material b) Increases with the increasing cross-sectional area of material c) Does not vary with the increasing cross-sectional area of material None of these	a
93.	The material used in brushes of DC generator is a. Carbon b. Copper c. Both (a) and (b) d. None of the above	a.
94.	The number of parallel paths in 8 pole wave wound DC generator is a. 2 b. 16 c. 8 d. 4	a.
95.	A machine without commutator, providing an ac emf to the external circuit is called as a. D.C. generator b. Alternator c. Synchronous motor Transformer	b
96.	The power factor of an alternator depends on a. Load b. Speed of rotor c. Core losses d. Armature losses.	a
97.		42-
98.	The difference between the synchronous speed Ns of the magnetic field and the actual speed of the rotor N is called as the a) Synchronous speed b) slip speed c) Asynchronous speed d) maximum speed	b
99.	The earth wire should be (a) good conductor of electricity (b) mechanically strong (c) both (a) and (b) mechanically strong but bad conductor of electricity.	a
100	Resetting is quick and simple in (a) switch (b) MCB (c) fuse	4
	none of these.	ь

101	Kirchhoff Voltage law is concerned with	
- A12		
	a) Resistive drop	
	b) Battery EMF	
	c) Junction voltages	100
	d) Both a and b	d
102	An AC current given by $I = 14.14\sin(wt+\pi/6)$ has an rms value of	
	amperes.	
	SOUTH A SECTION AND A SECTION	
	a) 10	
	b) 14.14	
	c) 1.96	
	d) 7.07	364
100	100	a
103	A 12 Ω resistor is connected across a 15V DC supply. Then, the energy consumed in	
	three minutes is	
	(a)0.938 Wh (b). 93.8 Wh (c). 56.25 Wh (d). 5.625 Wh	20
104	(a)0.938 Wh (b). 93.8 Wh (c). 56.25 Wh (d). 5.625 Wh The relationship between power and energy could be given by the equation	a
104	The relationship between power and energy could be given by the equation	
	(a)power = energy * time (b). energy = power * time (c). energy = voltage *	
	current (d). None of these	b
105	Power factor of a pure capacitive circuit is	U
105	Tower factor of a pare capacity cerean is	
	a. 0 b. 1 c. in between 0 and 1 d. more than 1	a
106	A 6 kHz sinusoidal voltage is applied to a R-C series circuit. Then, the frequency of	
>47.74.923	the voltage across the resistor is	
	The total and the resident to	
	0 Hz b. 6 Hz c. 6 kHz d. 12 kHz	
		c
107	In a R-L series circuit, if the voltage drop across the resistor is 12 V(rms) and that of	
	inductor is 14 V (rms), the peak value of the supply is	
	AND	
2020	a.18.4 V b. 20 V c. 26 V d. None of these	c
108		
	In a small all B. C. singuis assessed as a single broad in 100 at A. and though the	
	In a parallel R-C circuit, current through a resistive branch is 100 mA and through the	
	capacitive branch is also 100 mA. Then, the total current is	
	a.200 mA b. 141 mA c. 282 mA d. 100 mA	
	a.200 mA	b
109	The transformer core is laminated to reduce	a
	a) eddy current losses	
	b) hysteresis losses	
	c) copper loss	
	d) all the above	
110	The path of the magnetic flux in a transformer should have	d
110	a) high resistance	u
	[CATA] V [CA	
	b) high reluctance	
	c) low resistance	
	d) low reluctance	
111	The emf induced in a coil of N turns is given by	a
	a) $-N\frac{d\phi}{dt}$	
	b) $N\frac{d\phi}{dt}$	
	c) $\frac{d\theta}{dt}$	

	d) $N \frac{dt}{d\emptyset}$	
112	The property of a material which opposes the creation of magnetic flux in it is known as a) Reluctivity b) Magnetomotive force c) Permeance Reluctance	d
113	Which of the following is not a part of DC machine a. Commutator b. Slip rings c. Brushes d. Armature Core	ь.
114	DC series motor is used in a. Cranes b. Lathes c. Fans d. None of the these	a.
115	If K _P and K _d are the pitch factor and distribution factor respectively then the rms value of induced emf per phase is given by a. K _c K _d f ØT b. 1.414K _f K _c K _d f ØT c. 4.44 K _P K _d f ØT 1.11K _f K _c K _d f ØT	c
110	A 10 pole AC generator rotates at 1200 rpm. The frequency of AC voltage in cycles per second will be a. 120 b. 110 c. 100	
117	d. 50. The slip of an induction motor is defined as the ratio of a) Synchronous speed to slip speed b) Slip speed to synchronous speed c) Constant speed to synchronous speed d) Synchronous speed to constant speed	c
118	When slip becomes unity in a 3 phase induction motor, the rotor speed will be a) Zero b) Synchronous speed c) Maximum speed d) infinity	a
119	Which among these are the main characteristics of a fuse element (a) low melting point (b) high conductivity (c) least deterioration due to oxidation (d) all of the above	d
120	The minimum value of the current at which the fuse melts is called (a) fusing factor (b) rated current (c) fusing current	u

121 A sine wave has a frequency of 50 Hz. Its angular frequency is radian/second (a) 100π (b) 50π (c) 25π (d) 5π	a
122 A heater is rated as 230V, 10 kW, AC. The value 230V refers to (a) Average voltage (b) r.m.s voltage (c) peak voltage (d) none of the above	ь
a. the amount of heat transferred b. the amount of charge transferred c. either heat transferred or charge transferred d. None of these	ь
(a). Current flowing in a circuit (b). EMFs and Voltage drops in a circuit (c). Power in a circuit (d). All the above	d
125 If the voltage drop across two terminals in a given 1-φ circuit is given by e = 14.14 sin (120πt+30°) V, it should be a circuit. a. Pure R b. Pure L c. Pure C d. R-L series e. R-C	
series	d
In a series R-L-C circuit, resistance is 90 Ω, inductive reactance is 30 Ω and the capacitive reactance is 50 Ω. When it is powered by a 12 V, 1- φ AC supply, the current in the circuit is	d
a. Voltage lags its current by 90° b. Voltage leads its current by 90° c. Voltage lags its current by angle in between 0° and 90° d. Voltage leads its	
current by angle in between 0° and 90° 128 In a pure capacitive circuit, the ratio of voltage to current (V/I) is referred to as a. Resistance b. Admittance c. Capacitive Reactance d. None of these	c
A transformer transfers electrical energy from primary to secondary usually with change in a) frequency b) power c) voltage d) time period	c
a) a.c. b) d.c. c) both a.c. and d.c. d) none of the above	a
The magnitude of induced emf in a conductor depends upon the a) Rate of change of flux linkage b) Amount of flux linkage c) Amount of flux cut	a
Flux density of their magnetic field	

	a) From north pole to south pole b) From south pole to north pole	
	c) From one end of the magnet to another.	
133	None of these The armature of DC motor is laminated to a. Reduce eddy current loss b. Reduce hysteresis loss c. Both (a) and (b) d. None of the above	a.
134	Function of is to collect current from the commutator and supply it to the external load. a. Field Magnet b. Armature core c. Brushes d. Pole core	c.
135	The frequency of voltage generated by an alternator having 8 poles and rotating at 250 rpm is a. 60 Hz b. 50 Hz c. 25 Hz d. 16.66 Hz	d
136	The number of cycles of the induced emf per second is equal to a. (No. of cycles per revolutions) x (no. of revolutions per second) b. (No. of cycles per second) x (no. of revolutions per second) c. (No. of cycles per revolutions) x (no. of revolutions per hour) (No. of cycles per revolutions) / (no. of revolutions per second)	a
137	For low values of slip, the torque/slip curve of a 1 phase induction motor is a) A straight line b) a parabola c) A Rectangular hyperbola d) exponentially rising	a
138	The starting current is limited by applying reduced voltage in case of a) Squirrel cage type induction motor b) Slip ring type induction motor c) Squirrel cage and Slip ring induction motor d) None of the above	
139	The size of earth or ground wire is based on the	a
	(a) maximum fault current carrying through the ground wire (b) rated current carrying capacity of the service line (c) depends on the soil resistance	
140	both (a) and (c) Ground resistance should be designed such that	d
140	(a) grounding resistance should be as low as possible (b) grounding resistance should be as high as possible (c) grounding resistance should be always zero (d) none of the above	a
141	The RMS value of an alternating quantity is defined based on	
	a. the amount of heat transferred b. the amount of charge transferred c. either heat transferred or charge transferred d. None of these	a
142	What will be the phase angle between two alternating waves of equal frequency, when one wave attains maximum value, the other is at zero value? (a) 0° (b) 45° (c) 90° (d) 180°	c
143	If a sinusoidal wave has frequency of 50 Hz with 30A r.m.s current, which of the	a

			nts this wave ?	20 : 50	(D.0101) 05	
1.4.4				30 sin 50t	(d) 84.84 sin 25t	-
44	SI unit of pow					
			(c). kilowatt-ho		lt	b
45	The capacitan	ce is measure	d in	-0.		
	a.henry	b fored	c. ohm	d None	of these	b
16						U
	A 47 Ω resistor and a capacitor with a capacitive reactance of 120 Ω are connected in series with a 10V, 1 kHz, 1- ϕ supply. Then, the total impedance is					
	a.167 Ω	b. 129 Ω	c. 12.9 Ω	d. None	of these	b
147	In a series R-	C circuit, the	voltage drop acre	oss a resistor	r is 12 V (rms) and that of	
	capacitor is 15 V (rms). Then, the supply voltage is					
	22.11	1 10 0 17	1.02 1/	1.57	6.1	
40	a. 27 V		c. 1.92 V			b
148			y is	uit over a co. –	mplete cycle when powered	
	a.Zero watts	b. VI watts	c. √3 VI cose	b watts	d. VI cos ø watts	
				Öl-		d
149			former with great	ter number	of turns is	b
	a) low voltag					
	b) high volta					
	c) either low		age winding			
	c) none of th	the state of the s				
150		1000	450	and second	lary have	c
	a) high leaka					
	b) large resis	tance				
	c) tight magr	netic couplin	g			
	d) good elect	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON				
151				uit current	changes at the rate of 10	a
	A per sec, th	en self- indu	ced emf is			
	a) 20V					
	b) 5V					
	c) 10V					
	d) 0.2V					
	Water 10 to	ANALONINA NO ENTER DE				
52					current in one coil	a
	changes at the rate of 2A per sec, then emf induced in the other coil is					
	a) 8V					
	b) 2V					
	c) 0.5V					
	d) 5V					
152	In a DC moto	r the machen	ical output power	actually con	nes from	
33		r, the mechan I system	icai output power		Air-gap flux	
	c. Back				Electrical input power	d.
54	-		V DC motor of ar		tance 0.5 Ω and back e.m.f.	u.
-	110V is	The state of the s	impere.			
	a. 20			b.	240	
	c. 220			d.	5	a.
55	Salient poles	are generally	used on			
	a. high speed	prime movers	only			800
- 1	an ingir speed	printe movers	. July			d

	b. medium speed prime movers only	
	c. low speed prime movers only	
	PORT OF THE PROPERTY OF THE PR	
150	d. low and medium speed prime movers.	
150	The torque developed in DC shunt motor is a. Directly proportional to the armature current c. Inversely proportional to the armature current d. Inversely proportional to the armature current	
157	The starting current is limited by increasing the impedance of the motor circuit in	a.
137	case of a) Squirrel cage type induction motor b) Slip ring type induction motor c) Squirrel cage and Slip ring induction motor d) None of the above	b
158	A 4 pole 50 cycles/sec Induction motor is running at 1445 rpm. The synchronous	. H.
	speed is 1500 rpm. Find the slip speed. a) 1500 rpm b) 1445 rpm c) 55 rpm d) 0	
10720	Wiring system depends on	c
	(a) location and consumers budget (b) durability and cost (c) safety and appearance	
2000	all the above Earthing is necessary to give protection against	d
	(a) voltage fluctuation (b) overloading (c) electric shock	
	high temperature of the conductors	c
161	The period of a wave is (a) Expressed in amperes (b) the same as frequency (c) time required to complete one cycle (d) none of the above	c
162	In a DC Circuit, Inductive reactance would be	d
	For a frequency of 200 Hz, the time period will be 0.5 s (b) 0.05 s (c) 0.005 s (d) 0.0005 s	с
	A d.c circuit usually has as the load. a) resistance b) inductance c) capacitance d) both inductance and capacitance	a
165	In a series R-L-C circuit, if R = 12 Ω , L = 10 mH and C = 80 μ F and it is supplied by a 15 V, 200Hz, 1- ϕ AC source, its total impedance is a.12.28 \perp 12.34 Ω b. 12.28 \perp -12.34 Ω c. 9.95 \perp 12.34 Ω d. 9.95 \perp -12.34	a
166	Ω A 470 Ω resistor and an inductor having 125 Ω inductive reactance are connected in parallel and energized by a 15 V, 50Hz, 1- ϕ source. Then, the current through the	b

12 mA b. 120 mA c. 32 mA d. None of these 167 If a pure capacitive circuit is powered by a DC source, the current in that circuit will be		inductor is			
be		12 mA b. 120 mA c. 32 mA d	l, None	of these	
be	167	If a pure capacitve circuit is powered by a DC sou	urce, th	e current in that circuit will	
168 Power factor of a pure resistive circuit is	22.50				
168 Power factor of a pure resistive circuit is		One standing of the second			20
a.1 b. 0 c. in between 0 and 1 d. more than 1 169 The kVA rating of a transformer with secondary voltage of 5000V and load current of 50A is a) 5kVA b) 25kVA c) 50 kVA d) 250Kva 170 Transformer winding is generally made of a) iron b) copper c) aluminium d) none of the above 171 The voltage per turn in the primary in a transformer is the voltage per turn in the secondary. a) equal to b) greater than c) less than d) greater or equal to 172 A transformer is an efficient device as it is a) static device b) electrically coupled c) magnetically coupled d) all the above 173 The direction of current in a DC Generator can be found using a. Flemings Right Hand Rule c. Lenz law d. Faradays law a 174 The T _x /T _x graph of a DC series motor is a a. Hyperbola c. Parabola d. None of these c. The speed becomes dangerously high d. It will take too long to acceded to the secondary and the falls and lin increase c. Both back emf as well as line current falls c. Both back emf as well as line current makes 90 complete cycles in one minute. Find the percentage slip a) 3% b) 55% b) 8% d) 1.5%	1.00			ıt	b
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a. The field current is zero c. The speed becomes dangerously high d. It will take too long to accel c. 176 What will happen, with the increase in speed of a DC shunt motor? a. Back emf increase but line current falls c. Both back emf as well as line current increase c. Both back emf as well as line current increase fall 177 A 4 pole Induction motor is connected to a 50Hz supply and at full load, the rotor emf makes 90 complete cycles in one minute. Find the percentage slip a) 3% b) 55 % b) 8% d) 1.5 % 178 The rotor of the single-phase induction motor is of		c. Parabola	4.6726	None of these	c
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a) 3% b) 55% b) 8% d) 1.5% a 178 The rotor of the single-phase induction motor is of	177	A 4 pole Induction motor is connected to a 50Hz s	supply a	and at full load, the rotor	
b) 8% d) 1.5 % a 178 The rotor of the single-phase induction motor is of				ercentage slip	
a 178 The rotor of the single-phase induction motor is of		11787 - 1709CH	100		
178 The rotor of the single-phase induction motor is of		b) 8% d)	1.5 %		
[조실 [14] : 고스타 전 5일 보이를 보면 12의					а
	178	() - 프로그램, 전, 프리크, 프로그램, H.			

c) Smooth cylindrical type d) Non-salient pole type	
79 The resistance of the earthing wire is	
(a) very high	
(b) moderate	
(c) very small	
(d) none of the above	
80 Which of the following material is not used as fuse element	c
(a) silver	
(b) copper	
(c) aluminum	l a
(d) carbon 81 The 50Hz alternating voltage has an angular velocity rad/sec.	d
	1 2
100π b. 50π c. $25/\pi$ d. None of these 82 Average power consumed by a pure inductive circuit over a complete cycle when	- 2
powered by an AC supply is	c
a. Data is insufficient	
b. Depends on the RMS value of voltage and current c. Zero	
C. Zelo	
One watt	
83 When a bulb of 100 W continuously runs for 24 days, it consumes	a
energy.	
(a)57.6 kWh (b). 576 kWh (c.) 2.4 kWh (d). 24 kWh 84 If a 120V DC drives a current of 500mA through a 60W bulb, the resistance of the	b
	10
bulb is	
(a) 60Ω (b). 240Ω (c). 120Ω (d). 30Ω	a
85 Fower factor may be defined as	a
a. Active Power/Apparent Power b. Apparent Power/Active Power	
c. Active Power/Reactive Power c. Reactive Power/Active Power	
86 In a phasor diagram, the relationship between the voltage and its current when a pure	c
resistive circuit is energized by an AC supply is	
a Voltage less its support by 000	
 a. Voltage lags its current by 90° b. Voltage leads its current by 90° 	
c. Both the voltage and current are in phase	
d. Voltage lags its current by an angle in between 0° and 90°	
Voltage leads its current by an angle in between 0° and 90°	
87 In the case of AC, the ratio of voltage to current (i.e., V/I) is known as	. с
a Resistance b Conductance c Impedance d Admittance	
a. Resistance b. Conductance c. Impedance d. Admittance 88 State whether the following statement is true or false?	b

	a. True b. False	
	In an autotransformer, the primary and secondary are coupled. a) only magnetically b) only electrically c) magnetically as well as electrically d) none of the above The basic requirement for inducing emf in a coil is that	c
	a) there should be change in magnetic flux linking the coil b) magnetic flux should link the coil c) coil should form a closed loop d) none of these	а
191	The mutual inductance between two coil is reluctance of magnetic path. a) Inversely proportional to b) Directly proportional to c) Independent of d) None of these	а
192	Core of an electromagnet should have a) Low coercivity b) High susceptibility c) Both of the above None of the above	c
193	The direction of motion of a DC motor can be found using a. Flemings Right Hand Rule b. Flemings Left Hand Rule c. Lenz law d. Faradays law	b
194	As the load is increased, the speed of a DC shunt motor a. Increases proportionately b. Remains constant c. Increases slightly d. Reduces slightly	d.
195	The starter in DC motor is used to limit a. Inrush of high voltage b. Inrush of high speed c. Inrush of high current d. None of these	c.
	The speed of a DC series motor is a. Directly proportional to armature current b. Inversely proportional to the current c. Directly proportional to the square of the armature current d. Inversely proportional to the the armature current	i i
197	A 3 Phase 50Hz Induction motor has synchronous speed of 750 rpm. If the full load slip is 2.5% find rotor speed. a) 750 rpm b) 731.25 rpm c) 7312 rpm d) 0	b
198	In a three phase induction motor, if f is the frequency of the stator supply and s is the slip then the frequency of the rotor induced emf is a) $f_r = s/f$ b) $f_r = s^{2*}f$ c) $f_r = f/s$ d) $f_r = s*f$	d
199	Factor on which soil resistance depends on (a) depth of the electrode (b) moisture (c) NaCI (d) all the above	d
200	What is the specification of GI earth plate?	b

(a) 60 cm x 60cm x 3mm	
(b) 60 cm x 60cm x 6mm	
(c) 60 cm x 60cm x 4mm	
60 cm x 60cm x 5mm	