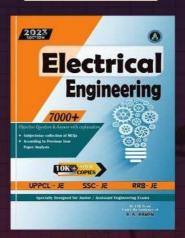


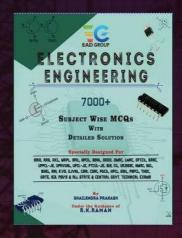
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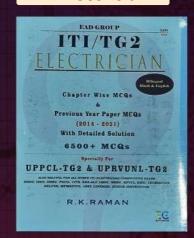




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1	In ring main distribution systems, the distributor is fed (1) By one feeder (2) By two feeders	(3) At different points	(4) By four feeders	
	Spot pricing is about			
	(1) Power factor improvement	(2) kVA demand reduction		
2	(3) Tariff/ rate at different times	(4) Generation cost reduction		
	A synchronous machines has higher capacity for			
3	(1) Leading power factor	(2) Lagging power factor		
1	(3) Does not depend upon the power factor of machine	e (4) None of the above		
	A separately excited dc generator is running at rate	d speed and at no load. If its fi	eld winding is suddenly	
	connected to a dc source then rise in armature generate	erated voltage is governed by		
4	(1) Armature time constant	(2) Field time constant		
	(3) Both (a) and (b)	(4) Mechanical time constant		
184	A 1-phase, 7.46 kW motor is supplied from a 400 V,	50 Hz A.C mains. Its efficiency is	85% and power factor	
5	0.8 lagging. Calculate the KVA input			
9	(1) 9.56 kVA (2) 5.4 Kva	(3) 10.97 kVA	(4) 8.6 kVA	
6	Heat control switches are used in			
0	(1) Transformer (2) Cooling ranges	(3) 3-phase induction motors	(4) 1-phase motors	
	In permanent magnets, the desired features are	(4.0 m) (4.0 m)		
	(1) High retentivity, low corecitivity	(2) Low retentivity, high cored	citivity	
.7	(3) Low retentivity, low corecitivity	(4) High retentivity, high core	citivity	
	Which of the following alternatives will be cheaper	· 网络加克斯纳 (2017年20年20年20年2		
	(1) A 100 h.p AC, 3-phase motor	(2) Four motors of 25 h.p each	1	
8	(3) Five motors of 20 h.p each	(4) 10 motors of 10 h.p each		
	The efficiency of modern steam turbines is about	A special base with the		
9	(1) 50% (2) 85%	(3) 75%	(4) 90%	
-	One 200 V, 100 W bulb is connected in series with p			
Ha	kept open circuited, then the bulb would have	initially of a 200 1, 10 a 111 auto	Assets and	
		(2) Poor brightness		
10	(1) Full brightness	(4) More than full brightness		
1	(3) A little less than full brightness	(4) More than full originaless		
11	Two monthly tariff are offered as			
	Rs 3000+Rs 0.90/kWh			
	Rs 3/kWh			
11	At what consumption/ month is tariff (i) is more suita	ble for consumer	•	
	(1) 1526.8 kWh (2) 1428.6 kWh	(3) 1450.4 kWh	(4) 1582.4 kWh	
12	A diesel plant has good efficiency at			
1	(1) Plant load (2) Half load	(3) Full load	(4) None of the above	
10	The maximum demand of consumer is 2 kW and his	daily energy consumption is 20 ur	nits. Its Load Factor is	
13	(1) 10.15% (2) 41.6 %	(3) 50 %	(4) 60%	
	Pelton turbine is used for water head is	THE PROPERTY OF STREET		
14	(1) >200 m (2) 30-200 m	(3) < 30 m	(4) <100 m	
	Filament lamp at staring will take current		STATE OF THE PARTY	
11		(2) Equal to its full running cu	urrent	
15 (1) 2000 111111 110 11111 110		(4) None of the above		
	(3) More than its full running current		nect it to the same sunni	
	When a resistance element of a heater gets fused. We remove a portion of it and reconnect it to the same supply			
16	the power drawn by the heater will	(2) Parada and and	(4) None of the abov	
	(1) Increase (2) Decrease	(3) Remain unchanged	(4) None of the above	

. (The correlation between utilization factor, load factor a (1) Utilization factor=load factor*capacity factor (3) Capacity factor=Utilization factor/Load factor	(2) Capacity factor=Utilization factor	or*capacity factor
Company of the	(3) Capacity factor=Utilization factor/Load factor A moving coli ammeter has a fixed shunt of 0.02Ω wi of 0.5 V across it for full scale deflection. Calculate the	th a coil circuit resistance of R=1 le value of shunt to give full scale d	eflection when the total
2	current is 10 A . (1) 0.05Ω (2) 0.005Ω	(3) 0.5 Ω	(4) 0.0005 Ω
3	Moving iron instruments can be used for measuring (1) Direct currents and voltages (3) A.C currents and voltages	(2) Radio frequency currents (4) Both (a) and (c)	
54	Plugging of dc motors is carried by (1) Reversing only the field and armature polarity (2) Reversing only the field polarity (3) Reversing only the armature polarity	ecting across a resistance	
55	If supply voltage decreases by 4% the torque in 3-pha	se induction motor would decrease	(4) 7.84%
56	The ratio of the primary to secondary voltage of a tra required if an autotransformer is used instead of two	(3) 66.67%	(4) 97%
57	Which of the following methods of heating is not dep	endent on the frequency of supply (3) Electric resistance heating	(4) All of the above
58	An alternator is connected to a bus. For a symmetral alternator is connected to the same bus, the new fault (1) 120 MVA (2) 60 MVA	(3) 30 MVA	(4) 15 MVA
59	Synchronous motor is found more economical when	(3) 30 KW	(4) 100 kW
60	(1) 2 kW (2) 20 kW The maximum torque that a synchronous motor can (1) 1/V ² (2) 1/V	deliver is proport onal to (3) V	(4) V ²
61	Ash content of Indian coal is	(3) 35%	(4) 45%
62	the division of active power amongst alternators run (1) speed-load characteristics of prime mover (3) Excitation voltages of alternators	ning in parallel depends upon (2) V-I characteristics of alter (4) Both (b) and (c)	rnator
63	Pumped storage plant is suitable for (1) Peak loads (2) Off peak loads	(3) Average load	(4) Medium load
64	The tariff generally used for tubewell loads is (1) Flat demand (2) Straight meter rate	(3) Block meter	(4) None of the abov
65	The electrode of a direct are furnace is made of	(3) Silver	(4) Copper
66	The number of parallel paths in armature winding coil sides is	of four pole wave winding conne	(4) 11
67	Domestic consumers are charged at	(3) Two part tariff	(4) Straight rate met
- 68	Which of the following is present inside the fluore		(4) Helium and oxyger

35 .	In induction heating, the depth upto which the current $(1) f$ $(2) f^2$	(3) 1/f	(4) 1/√f		
	While selecting motor for an A.C which of the following	ing characteristics is of g	reat importance		
-	(1) Type of bearings	(2) Type of enclosure			
36	(3) Noise	(4) Arrangement for power transmission			
113	The staring torque in case of centrifugal pumps is generally				
07	(1) Less than running torque	(2) Same as running torque			
37	(3) Slightly more than running torque	(4) Double the runnin	ng torque		
	Transformer voltage is maximum when two coils are				
20	(1) Normal to each other	(2) Aligned along the same axis			
30	(3) 60° away from each other (4) 270° away from each other				
	A dc shunt motor runs at 500 r.p.m at 220 V. A resista	ance of 4.5Ω is added in	series with the armature for speed		
39	control. The armature resistance is 0.5 ohms. The curr	rent to stall the motor wil			
Ĭ	(1) 44 A (2) 50 A	(3) 44.4 A	(4) 60 A		
T	In sodium vapour lamp the function of the leak transfe				
40	(1) To stabilize the arc	(2) To increase the su			
T	(3) Both (a) and (b)	(4) None of the above			
	In the equivalent circuit of a 3-phase induction motor	, the mechanical load on	the motor can be represented by		
41	resistance of value	Y AND AND THE REAL PROPERTY.			
	(1) R ₂ (2) R ₂ /S The direction of rotation of an ordinary shaded pole si	(3) $R_2(1-S)/S$	$(4) (R_2/S)+1$		
	(4) Can be reversed by short circuit the shading rings The most efficient from of damping employed in elec				
-43	(1) Air friction (2) Fluid friction	(3) Eddy current	(4) None of the above		
44	The diameter of the rotor shaft for an electric motor d		following		
T	(1) rpm only (2) hp only	(3) hp and rpm	(4) hp, rpm and Power factor		
45	For a normal wire, the approximate value of fusing cu	arrent is given by	20		
	(1) $I = K(d)^{3/2}$ (2) $I = K(d)^3$	(3) $I=K(d)^{3/4}$	(4) $I=(Kd)^{3/2}$		
	Cost of low voltage capacitor /kVAr is				
46	(1) More than cost of high voltage capacitor/kVAr	(2) Is independent of			
T	(3) Less than cost of high voltage capacitor/kVAr	(4) Is function of size			
1	During 3-phase short circuit on a unloaded alternator,		be zero in		
47	(1) One phase only	(2) Any two phases	and the second		
7	(3) All three phases	(4) None of the abov	e e		
	Transformer zero voltage regulation occurs at				
48	.(1) Unity power factor	(2) Leading power fa			
I	(3) Lagging power factor	(4) Zero power facto	r leading		
49	Which of the following is not equivalent to watts?				
(1) Amperes*volts (2) (Amperes)**ohm (3) Amperes/volt (4) Joules			(4) Joules per second		
	When two alternators A and B are operating in para	allel, the increase in stear	m supply to alternator A will caus		
•	the active power output of	Photogram and Applicate territory			
(1) Alternator A to be decreased and alternator B to be increased					
	(2) Alternators A and B is not affected				
50	(3) Alternators A and B is increased				
	(4) Alternator A to be increased and alternator B to b	e decreased			

1	The most appropriate operating speeds in rpm of gener	ators used in therman,	
	would respectively be	(2) 3000, 3000 and 300	
	(1) 3000, 3000 and 1500	(4) 1000, 900 and 750	
	(3) 1500, 1500 and 500	(4) 1000, 900 and 750	
8	Power factor of running induction motor is better when (1) Running at half load (2) Full load	(3) 34 of load	(4) None of the above
	(1) Running at half load (2) Full load Electric are welding process produces temperature up to		
9	(1) 1000° C (2) 1500° C	(3) 3300 C	(4) 5550° C
	For internal faults in generator, the primary protection is	provided by	
	(2) Differential relay		
20	(3) Induction type inverse definite minimum time relay (4) Definite minimum time relay		
	Luminous flux is		1000 E
	(1) The light energy radiated by sun	Control of the Contro	3000000000000000000000000000000000000
4	(2) The part of light energy radiated by sun, which is rec	ceived on the earth	
	(3) The rate of energy radiation in the form of light wav	es	
21	(D. N. Cabo above		
	If X is the system reactance and R is its resistance, the p	ower transferred is max	imum when
22		(3) X=1.732 R	(4) X=2R
	(1) X=R (2) X=1.414 R The all-day efficiency of a transformer is the ratio of		
	(1) kWh output and kWh input per day	(2) kWh output and kV	Wh input in a day
23		(4) input power and of	utput power
	(3) output power and input power The efficiency of a transformer at full load0.8 p.f lagg	ing is 90%. Its efficience	cy at full load 0.8 p.f leading wi
			国际
24	(1) Less than 90% (2) More than 90%	(3) 90%	(4) None of these
	(*)		
25	Doherty rate is suitable for (1) Industrial customers (2) Domestic customers	(3) Agricultural custom	ners (4) Commercial customer
	For blowers which of the following motor is preferred?		
	For blowers which of the following motor is protected	(2) D.C. snunt motor	
26	(1) D.C. series motor (3) Squirrel cage induction motor	(4) Wound rotor indu	ction motor
	(3) Squirrel cage induction motor A meter whose constant is 600 revolutions/kWh makes	5 revolutions in 20 sec	onds. Calculate theload in kW.
27	(A) 4 1 TET	(3) 3 K VV	(T) D K II
	(1) 0.5 kW (2) 1 kW An alternator with frequency f1 is to be synchrol	nized with an infinite	bus of frequency f. For prop
28	synchronization	(3) f1>f	(4) either (b) or (c)*
	(1) f1=f (2) f1 <f< td=""><td></td><td></td></f<>		
29	Short-circuit kVA is obtained by multiplying the base	(3) 50% X	(4) 100% X
	(1) 10% X (2) 20% X		
30	The most commonly used moderator material in nucle	(3) Co ₂	(4) Liquid metal
	(1) Carbon (2) Water	(3) CO2	
31	The overall efficiency of thermal station is	(3) More than 40%	(4) 50%
•	(1) 40% (2) Less than 40%		
32	Light duty cranes are used in which of the following?	used in which of the following? (2) Pumping stations (3) Automobile workshops (4) A	
il.	(1) Power houses (2) Pumping stations A transformer when supplying a load, maintained at	11 kV across load term	ninals. When the load was switch
	A transformer when supplying a load, maintained at	11 KV across road term	this load?
	off, the terminal voltage becomes 11550 V, what is the	le voltage regulation as s	(4) 55%
33	(1) 11,55 % (2) 5.5%	(3) 5%	
. 33	SAN 11. 11. 11. 11. 11. 11. 11. 11. 11. 11	ted to be around	
-	The power factor of a spot welding machine is expec	(3) 0.3-0.5 lagging	(4) 0.8 leading
34	(1) Unity (2) 0.8 lagging	(4) (1 4-(1 7 1200))))	(4) 0.0 iouding

69 -	The coolant used in Nuclear power stations is (1) Hydrogen (2) CO ₂	(3) Lithium	(4) Neon
70	Differential protection is used for protection against (1) Phase fault (2) Unbalanced voltage fault	(3) Unbalanced Current fault	(4) Overcurrent fault
71	A synchronous machine with large SCR has (1) Poor voltage regulation (3) Low short circuit current	(2) Poor stability (4) More synchronizing power	
72	The main function of economizer of a boiler in a plant (1) Increase steam production (3) Increase stem pressure	(2) Reduce fuel consumption (4) Increase life of the boiler	
.73	The supply both to field and armature circuits are disc and it comes to a standstill in 5 sec. If the armature ci circuit remaining energized, the motor would come to	rcuit of this motor is disconnecte	parately excited dc moto d from supply with field (4) A very long time
-	(1) 5 sec (2) 7 sec In case of a power transformer, the no load current in t		
74	(1) 10-20% (2) 15-30%	(3) 2-6%	(4) 30-50%
+	Which of the following lamp cannot sustain much volt	age fluctuations	
75	(1) Sodium vapour lamp (2) Mercury vapour lamp	(3) Incandescent lamp (4) Fluorescent lamp
76	Use of synchronous condenser improves	7	
1	(1) Power factor (2) System stability	(3) Reduces losses	(4) All of the above
77 -	Short circuit in a system causes which type of faults		
1	(1) Series (2) Shunt	(3) Symmetrical	(4) All of the above
	A star arrangement of resistances has branch resistances	ince of 3 Ω . The equivalent del	ta arrangement will hav
	resistance of values		
78	$(1) 9 \Omega$ $(2) 6 \Omega$	(3) 3 Ω	(4) 1 Ω
	The welding load is always		
	The welding load is always (1) Continuous but varying	(2) Continuous and constant	Company of the F
79	(1) Continuous but varying	(2) Continuous and constant (4) None of the above	2 2 2 E
	(1) Continuous but varying (3) Intermittent	(4) None of the above	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
79 80	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting	(4) None of the above	(4) Three filament
	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament	(4) None of the above	(4) Three filament
	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly	(4) None of the above has (3) Two filament	(4) Three filament
	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles	(4) None of the above has (3) Two filament (2) bus voltage magnitude	(4) Three filament
80	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above	
80	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound was above	
80	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be	with 6 ploes, other thing
80	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound was above	
80	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm	vith 6 ploes, other thing (4) 133.33 Nm
81 , 82	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutron	vith 6 ploes, other thing (4) 133.33 Nm
80	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm	vith 6 ploes, other thing (4) 133.33 Nm
80 81	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion	vith 6 ploes, other thing (4) 133.33 Nm
81 , 82	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction In AC system, the voltage drops are due to (1) Resistance (2) Inductance	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion (3) Capacitance	vith 6 ploes, other thing (4) 133.33 Nm
80 81	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction In AC system, the voltage drops are due to (1) Resistance (2) Inductance A salient pole machine delivers maximum power who	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion (3) Capacitance en δ is	vith 6 ploes, other thin, (4) 133.33 Nm ons (4) All of the above
80 81 82 83	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction In AC system, the voltage drops are due to (1) Resistance (2) Inductance A salient pole machine delivers maximum power who	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion (3) Capacitance	vith 6 ploes, other thing (4) 133.33 Nm
80 81	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction In AC system, the voltage drops are due to (1) Resistance (2) Inductance A salient pole machine delivers maximum power who	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion (3) Capacitance en δ is	vith 6 ploes, other thin, (4) 133.33 Nm ons (4) All of the above
80 81 82 83	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction In AC system, the voltage drops are due to (1) Resistance (2) Inductance A salient pole machine delivers maximum power who (1) 90° (2) 0-45°	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion (3) Capacitance en δ is (3) 45-90°	vith 6 ploes, other thing (4) 133.33 Nm ons (4) All of the above (4) 60°
80 81 82 83	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction In AC system, the voltage drops are due to (1) Resistance (2) Inductance A salient pole machine delivers maximum power who (1) 900 (2) 0-450 The role of surge tank in a hydroelectric plant is to	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion (3) Capacitance en δ is	vith 6 ploes, other thin, (4) 133.33 Nm ons (4) All of the above (4) 60°
80 81 82 83	(1) Continuous but varying (3) Intermittent The vapour discharge tube used for domestic lighting (1) No filament (2) One filament The changes in real bus power affects mainly (1) the bus voltage phase angles (3) reactive line flows The torque produced in a 4-pole machine is 100 remaining the unchanged, then the torque produced w (1) 66.67 Nm (2) 100 Nm The role of moderator is to (1) Speed up of neutrons (3) To start fission reaction In AC system, the voltage drops are due to (1) Resistance (2) Inductance A salient pole machine delivers maximum power who (1) 90° (2) 0-45°	(4) None of the above has (3) Two filament (2) bus voltage magnitude (4) none of the above Nm. If machine is re-wound would be (3) 150 Nm (2) Slow down the fast neutro (4) To control the fusion (3) Capacitance en δ is (3) 45-90°	(4) 133.33 Nm ons (4) All of the above (4) 60°

87	A reluctance motor (1) Is provided with slip rings (3) Has high cost	(2) Requires starting ge (4) Is compact	ar ·
88	For precision work, the illumination level required is of	(3) 50-100 lumens/m	(4) 10-25 lumens/m ²
89	100. A series R-L circuit is suddenly connected to circuit, just after the switch is closed, is equal to (1) Zero (2) V/L	(3) V/C	volts. The current in this series (4) V.L/C
90	(1) Develop torque in same direction (3) Draw dangerously high current	ies motor when connected across an AC supply will elop torque in same direction (2) Not develop any torque	
91	Typical value of SCR for modern turbo alternator is (1) 1 (2) 1.2 A 3-phase, 2 pole, 11 kV, 10000 kVA alternator has	(3) 0.5	(4) 1.5
92	has current balance protection which operates if ou wage of winding protected against earth fault (1) 10.6% (2) 11.6%	(3) 10.9%	(4) 11.2%
93	The value of group diversity factor is any generating (1) Less than 1 (2) Equal to 1		(4) None of the above
94	(1) Less than 1 (2) Equal to 1 A delta connected 400 V, 50 Hz, 3-phase induction 1 30 A. When the motor is started through a star-delta 1 (1) 3A (2) 10 A The phenomenon of squirrel cage motors sometimes	(3) 15 A showing tendency to run a	(4) 30 A
96	(1) Cogging (2) Crawling A dynamometer type wattmeter with its voltage coil If the load voltage be 200 V, what power is being tal (1) 200 W (2) 215W	(3) Damping I connected across the load ken by load? The voltage c (3) 230 W	d side of instrument reads 250 V
97	To limit the short circuit current during fault condition (1) Reactors are used	o its resistance is used	(2) Capacitors are used (4) Both (a) and (c)
98	To enable de series motor work satisfactory with an AC supply, the following modifications should be described. (1) The yoke and poles should be completely laminated. (2) The poles should be made of laminated steel. (3) The air gap between stator and rotor be reduced. (4) Compensating poles should be introduced.		
99	Hysteresis and eddy current loss are used in (1) Induction heating of steel (3) Intestion heating of brass	(2) Dielectric heating (4) Resistance heating	ng
100	An A Courrent is given by i=100sin100. It will ach	(3) 1/1800 sec	(4) 1/900 sec