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1.

Maximum: 100 marks

Time: 1 hour and 30 minutes

1.		Which of the following statement is/are correct about an atom?							
	(i)		electrons have a negative						
	(ii)		nucleus of atom consists	-					
	(iii)	The	protons have a positive cl	narge of 1.602×10^{-1}	¹⁹ Coulomb.				
		(A)	(i) only	(B)	(i) and (ii) only				
		(C)	(ii) and (iii) only	(D)	All of the above (i), (ii) and	(iii)			
2.	The	Valer	ace shell of an atom of a ma	terial is filled with f	our electrons. The material is	s known as :			
		(A)	Semiconductors	(B)	Conductors				
		(C)	Insulators	(D)	Super conductors				
3.	Whi	ch of	the following process is kr	nown as Soldering?					
	(i)	The	process of joining two me	tal conductors with	out melting them.				
	(ii)	The process of joining two metal conductors by melting them.							
	(iii)) The process of joining two metal conductors by using the rivets.							
		(A)	(i) and (ii) only	(B)	(iii) only				
		(C)	(i) only	(D)	(ii) only				
4.	Whi	Which of the following soldering flux is used for soldering electrical conductors?							
		(A)	Sodium carbonate	(B)	Borax				
		(C)	Tallow	(D)	Sodium Chloride				
5.		Which of the following is/are the commonly available soldering flux used for soldering Aluminium conductors?							
	(i)	AL(CAP						
	(ii)	Ker	-al-lite						
	(iii)	Kyn	al flux						
	(iv)	Eyr	e No. 7						
		(A)	(i) and (ii) only	(B)	(iii) and (iv) only				
		(C)	(ii) and (iii) only	(D)	None of the above				
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6.	Which of the following method is/are used for laying underground (UG) cable?							
	(i)	Layi	ing direct in ground or in ducts					
	(ii)	Layi	ing in racks in air or in tunnel					
	(iii)	Layi	ing along buildings or structures					
		(A)	(i) and (ii) only	(B)	None of the above			
		(C)	(ii) and (iii) only	(D)	All of the above (i), (ii) and (iii)			
7.			operating voltages are greater that lectric power transmission?	n 66 KV,	which type of the following cable is/are			
		(A)	SL type cable	(B)	Pressure cable			
		(C)	Screened cable	(D)	Belted cable			
8.	Whi	ch of	the following substance is/are know	n as semi	iconductors?			
	(i)) Germanium						
	(ii)	ii) Eureka						
	(iii)	iii) Ebonite						
	(iv)	Silic	con					
		(A)	(i) and (iv) only	(B)	(ii) and (iv) only			
		(C)	(ii) and (iii) only	(D)	All of the above (i), (ii) and (iii)			
9.	Which of the following statement is/are true about UG cables?							
	(i)	Arm	oring protect the cable from mechan	nical inju	ries.			
	(ii)	Met	allic sheath protect the cable from c	hemical a	attacks.			
	(iii)	Bed	ding protects the armoring from cor	rosion.				
		(A)	(i) and (ii) only	(B)	(i) and (iii) only			
		(C)	(ii) and (iii) only	(D)	All of the above (i), (ii) and (iii)			
10.			the following wire joint is used ular to the service lines?	in OH	lines for tapping the electric supply			
		(A)	Pigtail joint	(B)	Britannia tee joint			
		(C)	Married joint	(D)	Western union joint			

11.	Which of the following law states that the resistance of a wire is directly proportional to its length and inversely proportional to its area of cross section at constant resistivity of the material of the wire?									
		(A)	Ohms Law	(B)	Kirchhoff's First Law					
		(C)	Kirchhoff's Second Law	(D)	Laws of Resistance					
12.			be the current flowing through earns across a 300 V DC supp		s when a 100Ω and 50Ω resistors are					
		(A)	2 A flowing through both resisto	rs						
		(B)	0.5 A flowing through both resis	tors						
		(C)	$3~A~through~100~\Omega~$ and $6~A~thro$	ugh 50Ω						
		(D)	9 A through both resistors							
13.	Whi	Which of the following statement is/are correct about Kirchhoff's Laws?								
	(i)	(i) The sum of incoming current at a junction is equal to the sum of outgoing current from that junction.								
	(ii)	i) The sum of voltage drops in a closed circuit is equal to the voltage applied to the circuit.								
	(iii) Current flowing through a closed resistive circuit is always equal to the voltage applied to the circuit.									
		(A)	(i) and (iii) only	(B)	(ii) and (iii) only					
		(C)	(i) and (ii) only	(D)	All of the above					
14.	Which of the following statement is/are correct about resistance of pure metallic conductors?									
	(i)	Resi	stance increases with the increase	e in temper	ature.					
	(ii)	Resi	stance decreases with the decreas	se in tempei	cature.					
	(iii)	Resi	stance decreases with the increas	e in area of	cross section.					
	(iv)	Resi	stance increases with the increase	e in area of	cross section.					
		(A)	All of the above	(B)	(i) and (iii) only					
		(C)	(ii) and (iv) only	(D)	(ii) and (iii) only					
15.			nbers of 200 ohm resistors are co		parallel across a 12 V dc supply. What					
		(A)	2000 Ohm	(B)	166.6 Ohm					
		(C)	16.6 Ohm	(D)	20 Ohm					
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16.			ass of a substance liberated or deposited during electrolysis by one coulomb of ity is termed as:						
		(A)	Electro motive equivalent	(B))	Electro voltaic equivalent			
		(C)	Electro chemical equivale	nt (D)	Electrolytic equivalent			
17.	Whic	h of t	the following statement is/a	re correct about	a	Dry cell?			
	(i)	The	chemical reaction between	the electrodes a	nc	the electrolyte produces a voltage.			
	(ii)	The	dry cells must not be alway	s operated in a	าเ	pright position.			
	(iii)	The	cells have vents to escape g	gases generated	dυ	aring charge/discharge.			
		(A)	(i) and (ii) only						
		(B)	(i) and (iii) only						
		(C)	(ii) and (iii) only						
		(D)	All of the above (i), (ii) and	d (iii)					
18.	The bending of electrodes in a lead acid cell due to overcharging is known as :								
		(A)	Polarization	(B))	Plante Plate			
		(C)	Faure plate	(D)	Buckling			
19.	Whic		the following Cell in which	the chemical rea	act	tion that occurs during discharge is not			
		(A)	Lead acid cell	(B))	Nickel-iron cell			
		(C)	Carbon-zinc cell	(D)	None of the above			
20.	A battery operated electric bike requires 48 V, 100 Ah battery pack. The cell rated 1.2 V, 2 Ah is available. Choose a suitable combination from the following to make the battery pack:								
		(A)	40 parallel rows with 50 c	ells in series					
		(B)	50 parallel rows with 40 c	ells in series					
		(C)	100 parallel rows with 40	cells in series					
		(D)	40 parallel rows						
21.	What is the capacitance of a capacitor if 10 V is applied to it and store a charge 10 Coulomb?					applied to it and store a charge of			
		(A)	1 Farad	(B))	1 Micro Farad			
		(C)	1 Nano Farad	(D)	100 Farad			
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(i) The opposition offered to the flow of alternating current by a capacitor.									
	(ii) (iii)	_	Capacitive reactance is inversely proportional to the frequency of supply voltage. Capacitive reactance is directly proportional to the capacitance of the capacitor.						
		(A)	(i) and (ii) only						
		(B)	(i) and (iii) only						
		(C)	All of the above (i), (ii) and (iii)						
		(D)	(iii) only						
23.	Whic	ch of	the following is a polarized capac	itor?					
		(A)	Mica capacitor	(B)	Ceramic capacitor				
		(C)	Tantalum capacitor	(D)	None of the above				
24.			consists of two capacitors of 10 sly. How much charge is stored in		each are connected in series across a				
		(A)	200 micro coulomb	(B)	100 micro coulomb				
		(C)	2 micro coulomb	(D)	2 Coulomb				
25 .			the following law states that the ed it?	back EMF	has a polarity, which opposes the force				
		(A)	Lenz's Law	(B)	Fleming's Law				
		(C)	Faraday's Law	(D)	None of the above				
26.	An inductor of 1 Henry is connected to a 100 V, 50 Hz, AC supply. What is the value of reactance that offered by the inductor?								
		(A)	3.14Ω	(B)	$314~\mathrm{K}\Omega$				
		(C)	314 Ω	(D)	100 Ω				
27 .	Whic	ch of	the following expression gives the	e amount of o	energy stored in an Inductor?				
		(A)	$2~{ m LI^2}$	(B)	$0.5~{ m LI}^2$				
		(C)	$2~{ m L}^2{ m I}$	(D)	$0.5~\mathrm{L^2I}$				
28.	Whic	ch of	the following factor determines th	ne polarity o	f the electromagnet?				
		(A)	Magnitude of Voltage	(B)	Magnitude of current				
		(C)	Strength of Magnetic flux	(D)	Direction of Current				
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Which of the following statement is/are correct about the Capacitive reactance?

22.

29 .	Which o	of the following ma	aterial is a Paramagne	etic mat	terial?				
	(A	A) Iron		(B)	Bismuth				
	(0	S) Aluminium		(D)	Nickel				
30.			lle is used to determin ductor placed in a mag		rection of mechanical force experienced ield?				
	(A	A) Fleming's left	hand rule						
	(E	B) Cork screw ru	le						
	(C) Helix rule							
	(Γ	None of the ab	oove						
31.	Which o	of the following sta	atements, is not necess	sarily v	alid for alternating current?				
	(A	a) interferes with	h communication lines						
	(E	3) develops eddy	current losses						
	(C	c) is suitable for	charging batteries						
	(Γ)) provide better	safety as compared to	direct	current				
32.	In ac circuit, from the following elements the power consumed in :								
	(i) In	ductance							
	(ii) Ca	apacitance							
	(iii) Re	esistance							
	(A	A) Both (i) and (i	i)	(B)	(ii) only				
	(0	(i) only		(D)	(iii) only				
33.	The insulating material of the cable should have:								
	(A	a) low permittivi	ty						
	(E	B) high resistivit	у						
	(0) high dielectric	strength						
	(I	0) all of the abov	re						
34.			_		Hz. keeping the voltage constant, the stance and high inductive reactance:				
	(A		2 3 0	(B)	become half				
	(C		ed	(D)	become 4 times				

35.	Choose the most suitable answer from the following statement, to improve the power factor of a system.							
	(i) use only the resistive load							
	, ,	in the motor with the						
	` '	se capacitive bank						
		l of the above						
	(A	a) both (i) and (ii)						
	(E	, , , , , , , , , , , , , , , , , , , ,						
	(C							
	(Γ							
36.	Why A	C is required to meas	ure the earth resistance	by using earth resistance tester?				
	(A	A) Avoid electrolytic	emf interference					
	(E	3) Increase the volta	age drop					
	(0	C) Decrease the volt	age drop					
	(Γ)) Regulate the curr	cent					
37.	Which t	type of wiring system	is suitable for multistor	ied building?				
	(A	a) Tree system	(B)	Ring main system				
	(0	C) Distribution boar	rd system (D)	Looping out with junction box				
38.	What is the permissible leakage current in any wiring installation as per IE rule?							
	(A	Not exceed 1/50 th	part of full load current					
	(E	B) Not exceed 1/500	th part of full load curren	t				
	(0	C) Not exceed 1/500	$0^{ m th}$ part of full load curre	nt				
	(I	Not exceed 1/500	00th part of full load curr	ent				
39.	Which type test is to be carried out to check whether the switches are connected in live wire or not?							
	(A	a) Ground test	(B)	Polarity test				
	(0	C) Insulation resista	ance test (D)) Continuity test				
40.		Which is the minimum clearance between the bottom point of the ceiling fan and the floor a per IE Rule?						
	(A	a) 1.2 m	(B)	1.8 m				
	(0	C) 2.4 m	(D)	3.2 m				
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41.	what will happen, if shunt field resistance is too large?								
	(A)	Fails to build up voltage	(B)	Build up voltage					
	(C)	Generator doesn't run	(D)	Voltage increases					
42.	How load is shifted from one generator to other when DC generators are operating in parallel?								
	(A)	Adjusting speed	(B)	Adjusting armature resistance					
	(C)	By stopping the generator	(D)	Adjusting excitation					
43.	Which of the following generator does not build up voltage if load is not connected?								
	(A)	Series generator							
	(B)	Shunt generator							
	(C)	Long shunt compound generator							
	(D)	Short shunt compound generator							
44.	Which motor is used in heavy construction trucks?								
	(A)	Differential compound motor	(B)	Cumulative compound motor					
	(C)	DC shunt motor	(D)	DC series motor					
45.	Why the holding coil of a 3 point starter is connected in series with shunt field?								
	(A)	A) To limit the load current							
	(B)	To protect the motor from high speed	d						
	(C)	To hold the handle plunger firmly							
	(D)	To run motor at low voltage							
46.	Which type of DC generator is used for long distance distribution lines?								
	(A)	Shunt generator	(B)	Series generator					
	(C)	Differential compound generator	(D)	Cumulative compound generator					
47.	Which spe	eed control methods offers below norm	al spee	ed in DC shunt motor?					
	(A)	Field control method							
	(B)	Voltage control method							
	(C)	Armature control method							
	(D)	Ward Leonard system of speed contr	rol						

48.	How to ob	otain opposite polarity in adjacent pol	les of a 4	4 pole DC motor?
	(A)	Varying the number of turns in coil	[
	(B)	Making series connection of coils		
	(C)	Making parallel connection of coils		
	(D)	Making current flow in different di	rection	
49.	In any DO	C generator the emf generated in the	armatui	re is maximum, when the :
	(A)	rate of change of flux linkage is mir	nimum	
	(B)	rate of change of flux linkage is ma	ximum	
	(C)	conductor moves parallel to the ma	ximum f	lux area
	(D)	conductor moves perpendicular to t	he minii	mum flux area
50.	What hap	opens when the supply terminals of a	D.C shu	unt motor are interchanged?
	(A)	The motor will stop		
	(B)	The direction of rotation will revers	se	
	(C)	The motor will run at its normal sp	eed in tl	he same direction as before
	(D)	The motor will run much faster in t	the same	e direction
51.	For starti	ng a slipring induction motor ———	st	tarter is used.
	(A)	D.O.L starter	(B)	Rotor resistance starter
	(C)	Autotransformer starter	(D)	A star delta starter
52.	The speed	d of rotor of an induction motor is :		
	(A)	The same as synchronous speed	(B)	Higher than synchronous speed
	(C)	Less than synchronous speed	(D)	None of these
53.	The synch	nronous speed of a 4 pole motor at 50	Hz can	be:
	(A)	1500 RPM	(B)	1000 RPM
	(C)	3000 RPM	(D)	750 RPM
54.	Thermal	overload relays are ———— tl	han mag	gnetic overload relays.
	(A)	faster	(B)	slower
	(C)	much bigger	(D)	zero
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55.	The purpo	ose of back up fuse is to provide pro	tection ag	ainst :					
	(A)	Over voltage	(B)	Over load					
	(C)	Low current	(D)	Short-circuit					
56.	When the rotor is stationary the frequency of rotor current is:								
	(A)	Same as supply frequency	(B)	Less than supply frequency					
	(C)	More than supply frequency	(D)	Zero					
57 .	The fractional slip of an induction motor is the ratio:								
	(A)	rotor cu loss/rotor input	(B)	stator cu loss/stator input					
	(C)	rotor cu loss/rotor output	(D)	rotor cu loss/stator cu loss					
58.	If starting winding of a single phase induction motor is left in the circuit, it will:								
	(A)	draw less current	(B)	run faster					
	(C)	draw excessive current	(D)	spark at light loads					
59.	Which of the following motor operate on AC and DC supply?								
	(A)	Universal motor	(B)	Shaded pole motor					
	(C)	Reluctance motor	(D)	Shunt motor					
60.	If a single phase induction motor runs slower than normal, the more likely defect is :								
	(A)	improper fuses	(B)	shorted running winding					
	(C)	open starting winding	(D)	worn bearing					
61.	For the ra	ange extension of DC ammeter ——	i	s used.					
	(A)	CT	(B)	Multiplier					
	(C)	Shunt	(D)	PT					
62 .	A Transfo	rmer transforms :							
	(A)	Frequency	(B)	Voltage					
	(C)	Current	(D)	Voltage and current					

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		(C)	magnetic repulsion	(D)	magnetic attraction						
		(A)	sliprings	(B)	magnetic induction						
68.	The	rotor	of a split phase motor receive	es its power from	ı:						
		(C)	medium	(D)	zero						
		(A)	low	(B)	high						
67.	The starting torque of shaded pole motor is:										
		(C)	eddy current damping	(D)	none of these						
		(A)	air friction damping	(B)	fluid friction damping						
66.	The most efficient form of damping used in electrical instrument is:										
		(C)	deflecting instrument	(D)	integrating instrument						
		(A)	indicating instrument	(B)	recording instrument						
65.	Energy meter can be classified as ———— instrument.										
		(C)	Both (iii) and (iv)	(D)	Both (ii) and (iii)						
		(A)	Both (i) and (ii)	(B)	Both (iv) and (i)						
	(iv)		hometer – revolution per min								
	(iii)		mp meter – resistance.								
	(ii)		meter – measure the amoun	t of amplitude ir	n a work space.						
	(i)		gger – for checking insulation								
64.	Whi	Which of the following is incorrect?									
		(C)	Both (iii) and (ii)	(D)	Both (i) and (ii)						
		(A)	Both (i) and (iii)	(B)	Both (i) and (iv)						
	(iv)	Insu	lation and cooling								
	(iii)	Cool	ling and lubrication								
	(ii)	Inst	lation and conduction								
	(i)	(i) Cooling and insulation									
63.	The	trans	former oil used in a transforr	ner provides :							

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69.	The principle of operation of auto transformer is:									
	(A)	mutual induction	(B)	self induction						
	(C)	repulsion	(D)	attraction						
70.	A capacitor-start single phase motor will usually have a P.F of:									
	(A)	0.8 leading	(B)	unity						
	(C)	0.8 lagging	(D)	zero						
71.	The mean of the candle power of a light source in all direction above or below the horizontal plane is called as:									
	(A)	Mean Spherical Candle Pov	ver							
	(B)	Mean Hemispherical Candl	e Power							
	(C)	Mean Horizontal Candle Po	ower							
	(D)	None of these								
72 .	The outer tube of a high pressure metal halide lamp is made of borosilicate glass. Select the correct reason from the list:									
	(A)	Increase the lighting effect								
	(B)									
	(C)	(C) Withstand atmospheric temperature								
	(D)	(D) Reduce the ultra violet radiation from the lamp								
7 3.	Which type of material is used in LED to get green light?									
	(A)	Indium gallium nitride allo	ys							
	(B)									
	(C)	Aluminum gallium arsenide	e alloys							
	(D)	Gallium phosphide								
74.	_	standards, what should be t d the connecting cable?	he insulation re	sistance between the body of the wat	eı					
	(A)	0.01 Kilo Ohm	(B)	1.00 Kilo Ohm						
	(C)	0.01 Mega Ohm	(D)	1.00 Mega Ohm						
	, ,		` ,							

75.	from the given list, which is used as the heating unit of an electrical kettle?							
	(A)	Inductive filament	(B)	Flat wire sealed				
	(C)	Concealed wire in metal tube	(D)	Open filament				
76.	What is produced by doping silicon with arsenic?							
	(A)	N-type semiconductor	(B)	P-type semiconductor				
	(C)	PN-type semiconductor	(D)	PS-type semiconductor				
77.	The conductivity of semiconductors is increased by adding impurities with pure semiconductor material. How many electrons in an atom of donor impurity?							
	(A)	3	(B)	4				
	(C)	5	(D)	6				
78.	In the following special purpose diode, which is formed by metal and semiconductor?							
	(A)	Schottky diode	(B)	Varactor diode				
	(C)	Tunnel diode	(D)	Zener diode				
7 9.	The ripple factor of a power supply is a measure of:							
	(A)	Filter efficiency	(B)	Diode rating				
	(C)	Purity of power output	(D)	Voltage regulation				
80.	In a normal transistor circuit, the proper biasing is:							
	(A)	(A) Emitter Base junction is reverse, Collector Base junction is forward						
	(B)	Emitter Base junction is forward, Collector Base junction is forward						
	(C)	Emitter Base junction is reverse, Collector Base junction is reverse						
	(D)	(D) Emitter Base junction is forward, Collector Base junction is reverse						
81.	From the given list of generating stations, which has low running cost?							
	(A)	Nuclear	(B)	Hydro				
	(C)	Thermal	(D)	Diesel				

82.	w ni	cn of t	the following is generally used	a as a moderato	r in nuclear power plants?				
		(A)	Graphite	(B)	Heavy water				
		(C)	Concrete	(D)	Graphite and concrete				
83.	From the given list choose the correct group of conventional energy sources:								
		(A)	A) Hydropower, Geothermal energy, Tidal energy						
		(B)	Nuclear energy, Solar energy, Hydro power						
		(C)	Oil, Natural gas, Firewood						
		(D)	Coal, Firewood, Biogas						
84.	Biogas is a mixture of:								
		(A)	Methane and Hydrogen						
		(B)	Methane and Helium						
		(C)	Methane and Nitrogen						
		(D)	Methane and Carbon dioxide	e					
85.	Arrange the following from smallest to largest in a photo voltaic system (PV system):								
	(i) Module								
	(ii) Array								
	(iii) Solar cell								
	(iv) Array field								
		(A)	(iii)-(ii)-(iv)-(i)						
		(B)	(iii)-(i)-(ii)-(iv)						
		(C)	(ii)-(iv)-(i)-(iii)						
		(D)	(ii)-(iv)-(iii)-(i)						
86.	The knowledge of diversity factor helps in determining:								
		(A)	Plant capacity	(B)	Average load				
		(C)	Peak load	(D)	KWH generated				
87.	Which of the following places is not associated with nuclear power plants in India?								
		(A)	Narora	(B)	Tarapur				
		(C)	Bangalore	(D)	Kota				

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		(C)	Only (ii) & (iii)	(D)	Only (iii) & (iv)	
		(A)	Only (i) & (iv)	(B)	Only (i) & (ii)	
	(iv)	Stra	in insulator			
	(iii) Post insulator					
	(ii) Reel insulator					
	(i)	(i) Pin insulator				
93.	From the given list find the insulator used for distribution lines up to 33 KV is :					
		(C)	80-100 meters	(D)	100 - 300 meters	
		(A)	40-50 meters	(B)	50 - 80 meters	
92.	_	As per Indian Electricity rule in overhead system, the recommended span length for RCC poles is :				
		(C)	Super tension cables	(D)	Extra super voltage cables	
		(A)	High tension cables	(B)	Extra high tension cables	
91.	Cables used for 33 KV to 60 KV underground services are :					
		(C)	100 units	(D)	75 units	
		(A)	125 units	(B)	121 units	
90.	0. A diesel generating plant running on 400V, 50 Hz, three phase low tension (LT) supply 10 hours. The load comprises lighting load of 2.5 KW @0.9 power factor lagging on 'R' phase a heater load of 5KW @UPF on 'Y' phase and a three phase SCIM drawing 5KW @0.8 power factor lagging. What is the total energy consumption by the load?				@0.9 power factor lagging on 'R' phase, phase SCIM drawing 5KW @0.8 power y the load?	
		(0)	Turbine generator	(D)	Steam generator	
		(A) (C)	Electron generator Turbine generator	(B) (D)	Vapor generator Steam generator	
89.	Wine		rgy is harnessed by using:	(D)	Var an managatan	
0.0	****	1				
		(D)	The heat exchanger and the turbi	ne in a nu	clear power plant	
		(C)	The turbine and discharge drain			

A penstock is used as a conduit between:

The steam chest and turbine in a thermal station

A dam and turbine in hydro station

88.

94.	The cause for current in a transmission line under no load condition is due to:						
	(A)	Spinning reserve	(B)	Corona effect			
	(C)	Capacitance of line	(D)	Back flow from earth			
95.	Which compensation is required for improving power factor in feeder voltage controller?						
	(A)	Synchronous condenser	(B)	Shunt capacitor			
	(C)	Series capacitor	(D)	Shunt and series capacitor			
96.	Which of the following voltage level is used in primary transmission?						
	(A)	400 V	(B)	11 KV			
	(C)	33 KV	(D)	400 KV			
97.	A DC-3 wire distributor system requires how much copper as compared with a DC-2 wire system?						
	(A)	Only 83.33%	(B)	Only 66.66%			
	(C)	Only 33.33%	(D)	Only 31.25%			
98.	What type of insulator is used at dead ends of and straight lines as suspension type for voltages 3.3 KV and above?						
	(A)	Disc insulator	(B)	Stay insulator			
	(C)	Strain insulator	(D)	Pin insulator			
99.	A uniformly loaded DC distributor is fed at both ends with equal voltages. As compared to a similar distributor fed at one end only, the drop at the middle point is:						
	(A)	One fourth	(B)	One third			
	(C)	One half	(D)	Twice			
100.	In a DC 3 wire distributor using balancers and having unequal loads on the two sides :						
	(A)	Both balancers run as generator					
	(B)	Both balancers run as motor					
	(C)	Balancer connected to lightly loaded side run as a motor					
	(D)	Balancer connected to heavily loaded side run as a motor					

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