



Chandigarh Asstt. Lineman

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ELECTRICITY 'OP' CIRCLE, CHANDIGARH POST: ASSTT. LINEMAN Question Booklet & Answer Key 09.04.2023 (Sunday)





1.	An ideal voltage source should have A) Large value of emf C) Zero source resistance	B) Small value of emf D) Infinite source resistance	
2.	Passive element in a circuit is one which A) Receives energy C) Both receives and supplies energy	B) Supplies energy D) Neither receives nor supp	olies energy
3.	To determine the polarity of the voltage, dro A) Value of current through resistor C) Value of resistor	p across a resistor, it is necessa B) Direction of current throu D) Emf in the circuit	ry to know igh resistor
4.	A network which contains one or more than A) Linear network B) Passive network	C) Non-linear network) Active network
5.	In a delta connected network, when resistor A) Zero B) Reduced to 1/3	is open, the power will be C) Reduced by 1/3 D)	Unchanged
6.	The value of domestic supply is 220V, this value B) rms value	C) Peak value D) Av	verage value
7.	The rms value and mean value is same in the A) Angular wave B) Sine wave	e case of C) Square wave D) Half-way	ve rectifier sine wave
8.	The ratio of Form Factor to a sine wave is A) 1.414 B) 0.707	C) 1.11 D) 0.6	537
9.	A circuit component that opposes the chang A) Resistance B) Capacitance	e in circuit voltage is C) Inductance D) Al	l of the above
10.	Power loss in an electrical circuit can take p A) Inductance only C) Inductance and resistance only	B) Capacitance only D) Resistance only	
11.	The power factor of an ordinary electric bulk A) Zero B) Unity C) S	b is lightly more than unity D) Sl	ightly less than unity
12.	At resonance, PF of the circuit is taken as A) Unity B) Lagging C) L	eading D) Ze	ero
13.	The effective value of a sinusoidal i(t)= $I_m s$ A) $I_m/\sqrt{2}$ B) $2I_m/\pi$ C) I_n		/π
14.	11) 220 1	20V D) 76	
15.		0.5W D) 1.	ow
16.	In a balanced three phase star connected syntheir respective line voltages is A) 30° B) 60° C) 1		
17.	Wattmeter is an instrument which measures A) Instantaneous power B) Average real	s power C) Apparent power	D) Reactive power
18.	The minimum number of wattmeter needed connected load is A) One B) Two	l to measure power in a three pl C) Three	hase unbalanced star- D) Four
19.		C) Ampere-turn/meter	D) Ampere/meter
20.	Mmf is analogous to A) Electric current B) Current density		D) Voltage





21.	Permanent magnets are normally made up of	f malmuda şıb m penesa sı				
	A) Alloy B) Aluminium		D) Graphite			
22.	Which part of the magnetic circuit required	least mWb	transcon our made			
22	, , , , , , , , , , , , , , , , , , , ,	C) Air-gap	D) Inductance			
23.	The area of hysteresis loop is a measure of A) Permitivity B) Permeance	C) Energy loss per cy	ycle D) Magnetic force			
24.	The core flux in the core depends upon		wemura lucurdurean en F			
	A) Supply voltageC) Supply voltage, frequency and loadD) Supply voltage and load but independent	B) Supply voltage an of frequency	d frequency			
25.	The property of a material which opposes the A) Mmf B) Reluctance	e production of magnet	ic flux in it is known as D) Permitivity			
26.	Alternating current is measured by		2)10111111111			
	A) Ammeter B) Moving iron ammeter C	Electrostatic ammeter	D) Moving iron voltmete			
27.	The internal resistance of an ammeter is		is its annual formula expect a sign			
20	A) Zero B) Very small	C) Very high	D) Infinite			
28.	Creeping error occurs in A) Ammeter B) Voltmeter	C) Energy meter	D) PMMC instruments			
29.	The dynamometer type wattmeter can be use	d to manage	D) PIVIVIC Instruments			
2017	A) DC power B) AC power		r D) Neither AC nor DC			
30.	Damping torque is provided in indicating ins A) Air friction B) Fluid friction					
31.	The efficiency of transformer will be maximum when A) Copper loss=iron loss B) Eddy current loss=copper loss C) Copper loss=hysteresis loss D) Eddy loss=hysteresis loss					
32.	The short circuit test is performed on the trar A) Copper loss B) Iron loss	nsformer to determine C) Eddy current loss	D) Hysteresis loss			
33.	A transformer can have regulation equal to z A) On full load B) On half load C) Or	ero	D) On zero power factor			
34.	Auto transformer consists of A) Single winding B) Two windings	C) Three windings	D) Four windings			
35.	The core of a large transformer is built of A) Cast steel B) Cast iron	C) Silicon steel	D) Mild steel			
36.	A transformer core is laminated to		tari wa marania ari'i ia i			
	A) Reduce hysteresis loss	B) Reduce eddy current loss				
27	C) Reduce copper loss	D) Reduce stray loss				
37.	In an ideal transformer the impedance transfe A) Direct square ratio of turns	erred from one side to the B) Direct ratio of turn				
	C) Inverse square ratio of turns	D) Inverse ratio of tur				
38.	If the applied voltage of a transformer is incre50%, the core flux density will become	eased by 50%, while its				
	A) Three times B) 3/4 times		mains the same			
39.	The induced emf in a dc machine is proportion A) Field flux only C) Armature current only	onal to B) Speed of armature D) Both field flux and				
40.	The segments of the commutator of d.c. macl A) Brass B) Copper		D) Silicon steel			



41.	As the load increases, the	speed of dc shunt	motor will			
	A) Decrease slightlyC) Remains constant		B) Increase s D) First incre		d then decrease	es
42.	Which motor is used to di	rive constant speed				
	A) Cumulative compound	l motor	B) DC shunt	motor		
	C) Differentially compoun	nd motor	D) DC series			
43.	The direction of rotation of A) Interchanging supply t C) Interchanging field term	erminals	B) Interchang	ging arm	ature winding er armature or	terminals field terminals
44.	The slip of an induction m A) Infinity B		starting is	Hall layer		
4.5) Zero	C) One		D) Between	zero and one
45.	The stator winding of an i	nduction motor car				
	A) Any number of poles	1	B) Any even		of poles	
	C) Any odd number of po		D) Four pole			
46.	There is no electrical conrotor through					from stator to
	A) Magnetic flux	B) Air	C) W		D) Magnet	
47.	The rotor of squirrel cage	induction motor is	skewed because	se		
	A) It reduces humming th	us ensuring quiet r	running of the m	notor		
	B) It results in a smoother	torque curve for d	lifferent position	ns of the	rotor	
	C) It avoids the magnetic	locking of the state	or and rotor			
	D) All of the above					
48.	The power factor of an inc	duction motor will				
	A) Rotor is locked		B) Motor is r		at full load	
	C) Motor is running at no	load	D) All of the	above		
49.	The frequency of the volta	age generated in lar	rge alternators i	in India	is	
	A) In megacycles	B) In kilocyc	eles	C) 60	Hz	D) 50 Hz
50.	The rating of alternators is	s usually expressed	l as			
	A) Full-load current	B) Horse pov		C) KV	7A	D) KW
51.	Synchronous motors are n A) Starting can be used on B) Starting winding is not C) The direction of rotation D) The direction is instant	these machines provided on these on is not reversed	machines	cycle		
52.	A synchronous motor wor	king on leading po	wer factor at no	o-load is	known as	
	A) Condenser B) Synchronous con	denser	C) Inv		onverter
53.	Operating speed of a sync A) Changing the load C) Changing the frequency		be changed to B) Changing D) Using bra	the supp	xed value by	
54.		And the second of the second o	10 (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c			
JT.	What kVA rating is require secondary voltage of 2kV'A) 4 kVA	ed for a transform ?) 0.25 kVA		idle a ma		it of 8A with a
			C) 16 kVA		D) 8 kVA	
55.) 6 months	C) 9 months		at an interval of D) 12 months	
56.	Maximum permissible ear A) 0.5 ohms B)	th resistance at larg	ge power station C) 2 ohms	ns is	D) 8 ohms	
57.	The length of pipe electrod	de used for earthin	35	less tha		
) 4 m	C) 2.5 m	value	D) 5 m	



58.	passing electric current	ts in liquids? C) Magnetic	D) Chemical		
59.	What is the function of fine selector switch in battery charger? A) Selection of current rating B) Selection of charging time C) Selection of voltage range D) Selection of charging method				
60.	. Which part is losing electrons during electrolys				
61.	What is the fusing factor for rewirable fuse?	C) 2.1	D) Separator D) 2.5		
62.	Which type of load is protected by the L-series	MCB?	D) Air conditioners		
63.	What is the name of four insulated conductors		D) Layer		
64.	Which is used as a filter material for fixing screen		the olderly on him?		
65.	What is the purpose of ELCB A) Detects the fault in the circuit	B) Monitors th			
66.	- P - Postilos, il El	CB tripping current is			
67.	Which wiring is suitable for temporary installat A) Cleat wiring B) Concealed wiring C)	tion PVC conduit wiring	D) Metal conduit wiring		
68.	What is the expansion of ECC A) Earth Conductor Continuity	B) Earth Continuity C D) Earth Continuity C	onductor		
69.	Which type of lamp holder is used for the lamp A) Edison screw holder B) Goliath screw holder		er D) Brachet holder		
70.			- / / - (au / uilà i / i		
	No The state of th		A Singuist managational of the state of the		
		C) Installation plan	D) Layout diagram		
71.	A) Gives neat appearance	B) Reduce load curren D) Easy to replace	t more rejets buy		
72.	What is the meggar reading in a dead short wiri	ng installation	D) Infinity		
73.	A) Reducing the starting current	pressure sodium vape B) Reduce the working	our lamp circuit?		
74) Ignite the high volt	age initially		
74.	in the second se		ninous intensity		





75.	Which type of light fitting design has free from glare A) Semi direct type B) Semi indirect type C) Direct lighting type D) Indirect lighting type				
76.	Which device provide	s ignition voltage and	act as choke in a HPSV		
77.		d to make control sprin	ng in measuring instrum inned copper		
78.	Source of measuring (A) Device error	error caused by the effer B) Human error		D) Switching error	
79.	Type of energy meter A) Three phase two e C) Single phase single	ement	B) Three phase three	element element with CT and PT	
80.	Parameter responsible	for loading effect on	measuring instruments) Low sensitivity D)		
81.	Name an absolute inst	rument	nergy meter D) Ta		
82. 83.	A) Damping force E	movement of pointer B) Deflecting force C	in an indicating instrum) Repulsion forced red to measure 10 mA	nent? D) Controlling force with one mA meter	
84.	Type of ac single phase A) Universal motor	se motor used in food	C) 0.3 ΩmixerC) Split phase motor	D) 300 Ω	
85.	What is the function of A) Draws cooling air C) Exhausts the hot air	f stirrer motor in micronside	o wave oven? B) Spreads the heat uni	2 II. unitine mel 2 an	
86.	23		on of permanent deform C) Ductility		
87.	Metal used for making A) Grey cast iron	g casting of machinery B) White cast iron		AND THE PROPERTY OF THE PROPER	
88.	Which among the following A) Copper		C) Silver	D) Mica	
89.	Insulating material use A) Porcelain			D) Ebonite	
90.	Unit for velocity is A) Meter/second	B) Meter/second squ			
91.	Ratio of power output A) Work	*		D) Acceleration	
92.	How many newtons as A) 981 Newtons		15) F()	D) 0.981 Newtons	
93.	Instrument used to me A) Calorie meter			D) Barometer	
94.	Find the area of circle A) 1900 cm ²	***		D) 1960 cm ²	
95.	Ratio of stress to strain A) Yield point	47	C) Youngs modulus	9M 0 M	
96.	What is the color of a process?	metal piece when heat	ed to 250 degrees Celsi	us while doing the tempering	
	A) Blue	B) Brown	C) Purple	D) Pale	





What is the minimum permissible area of conductor (U/G cable) for three and half cores cable? 97.

A) 25 mm^2

B) 50 mm²

C) 5 mm²

D) 100 mm²

The law that states within elastic limit stress is directly proportional to strain 98.

A) Newtons law

B) Hooks law

C) Joules law

D) Charles law

Various types of heat treatment processes are 99.

A) Annealing, normalizing, hardening and tempering

B) Normalizing, heating, cooling and painting

C) Hardening, soaking, painting and packing

D) Tempering, cooling, packing and soling

100. Which is a kind of surface hardening process

A) Cementide

B) Ferrite

C) Nitriding

D) Tempering







Electricity 'OP' Circle, Chandigarh Post: Asstt. Lineman

Answer Key A-Series: 09.04.2023 (Sunday)

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