152/2016

A

1.	Repu	dsion motor is pro	wided with:					
		Commutator		(B)		gal switch		
	(C)	Capacitor		(D)	Squirrel	cage rotor		
2.	Whe	never a poly phas	e motor is loade	d the :				
	(A)	induced emf in t						
	(B)	induced emf in t			its freque	ncy rises		
	(C)	induced in the r						
	(D)	induced emf in t	the rotor decreas	es and	l its freque	ency increase	5	
3.	For	three resistance a	are connected in	three	phase, th	ne power cor	rsumed	if will be more in
	(A)	star delta	(B) star		(C) del	lta	(D)	delta-star
4.	Syno	chronous motors	run on leading p	ower	factor who	en connected	in:	
	110000000000000000000000000000000000000	under excitation		(B)	rated ex	citation		
	(C)	fully loaded		(D)	over exc	ritation		
5.	The	out put voltage o	f a solar cell is a	pproxi	mately:			
		1.2 V	(B) 0.5 V		(C) 2.1	l V	(D)	3 V
6.	Slip	rings are general	ly made of :					
	(A)			(B)	aluminu	ım		
	(C)	copper		(D)	carbon			
7.	The	hydrometer read	ling of fully char	ged le	ad acid ba	attery :		
		1.2	(B) 1.5		(C) 1.	11	(D)	1.26
8.	In i	induction motor p	ercentage slip is	maxir	num at :			
	(A)			(B)		n speed		
	(C)		lition	(D)	synchro	onous speed		
9.	Eco	onomiser is a part	of:					
	(A)		(B) nuclear	PS	(C) th	nermal PS	(D)	diesel PS

10.	The crawling in an induction motor is caused by :										
	(A)	improper design	n of th	e machine	(B)	low	voltage supply				
	(C)	high load			(D)	harn	nonics developed	in the	motor		
11.	The	commutator segr	nents	are placed i	n:						
	(A)	rotor	(B)	stator		(C)	armature	(D)	field		
12.	Redu	action in the capa	acitan	ce of capaci	tor sta	irt mo	tor results in red	uced :			
	(A)	noise			(B)	start	ing torque				
	(C)	speed			(D)	arma	ature reaction				
13.	In ar	n ac circuit the ra	itio of	kW/kVA r	eprese	ents :					
	(A)	power factor	(B)	load facto	r	(C)	starting torque	(D)	diversity factor		
14.	The	unit of inductane	e is:								
	(A)	ОНМ	(B)	МНО		(C)	HENRY	(D)	FARAD		
15.	Ear	to ear resistance	of hur	man body :							
	(A)	400	(B)	1 kilo ohn	ns	(C)	650 ohms	(D)	100 ohms		
16.	Cen	trifugal switches	is pro	vided for di	isconn	ecting	the auxiliary wi	nding	in a:		
	(A)	capacitor run r	notor		(B)	capa	citor start motor				
	(C)	reluctance mot	or		(D)	hyst	eresis motor				
17.	Tran	nsformer core is l	amina	ited to:							
	(A)	reduce the copy	per los	ss	(B)	redu	ices the eddy cur	rent lo	oss		
	(C)	reduces the cor	e loss		(D)	hyst	eresis loss				
18.	Whi	ich type of loss is	not c	ommon to t	transfo	ormer	and rotating made	hines	?		
	(A)	eddy current lo	oss		(B)	copy	per loss				
	(C)	hysteresis loss			(D)	win	dage loss				

				and of an induction motor is
19.		synchronous spe	ed and the actual sp	peed of an induction motor is
	known as:	lation	(C) black lash	(D) lag
	(A) slip (B)	regulation	(C) Chick hore	(-) -0
				- in combined reciptance will
20.		, 5, ohms are con	nected in parallel, ti	neir combined resistance will
	be:	(B)	between 30 to 15	ohm
	(A) greater than 30 ohm	The state of the s		
	(C) less than 5 ohm	(D)	between 15 to 5	
21.	Which of the following ac	ts as a depolarize		
	(A) zinc chloride	(B)		
	(C) ammonium chloride	e (D)	manganese diox	ide
22.	Efficiency of a power tran	nsformer is of the	order of :	
	(A) 50% (B		(C) 98%	(D) 45%
23.	The strongest dia-magne	tic material :		
25.	(P)	200	(C) glass	(D) graphite
	(A) sulphur (B			
	The magnitude of torque	developed by a t	hree phase inductio	on motor depends upon :
24.				
	(A) rotor current, rotor		one.	
	(B) supply voltage, sta		ency	
	(C) number of poles, s			
	(D) synchronous speed	l, rotor speed, free	quency	
25.	Rheostat method of spee	ed control of indu		
	(A) squirrel cage IM (B) slip ring IM	(C) double ca	ge IM (D) all of the above
26	. In a three phase IM the	number of poles i	n the rotor winding	; are:
	(A) zero		B) less than stator	
	(C) equal to stator pol	es (I	D) more than state	or poles
	1-7			152/2010

41.	if the air gap of induction motor is increased :	
	(A) the magnetizing current will increase	
	(B) the pf will increase	
	(C) speed of the motor will increase	
	(D) friction and windage loss will increases	
28.	Isolate fire from the supply of oxygen by blanketing it with foam, sand etc.	
	(A) starving (B) cooling (C) spray water (D) smothering	
29.	What is the condition of ohm's law ?	
	(A) constant resistance (B) constant voltage	
	(C) constant current (D) constant temperature	
30.	Power p=	
	(A) energy/time (B) energy/voltage (C) current/voltage (D) time/voltage	
31.	Moving coil instruments are use :	
	(A) ac only (B) both ac/dc (C) dc only (D) none of these	
32.	Low resistance means :	
	(A) up to 10 ohm (B) 1 ohm and below	
	(C) 1000 ohm (D) 500 ohm	
33.	Unit of resistivity :	
	(A) ohm (B) ohm-m (C) ohm m^2 (D) ohm/m	
4.	Kelvin bridge is used for measure :	
	(A) capacitance (B) low resistance	
	(C) inductance (D) insulation resistance	
5.	Resistivity of eureka at 20°C:	
	(A) 2.8×10^{-8} (B) 1.72×10^{-8} (C) 49×10^{-8} (D) 20.2×10^{-8}	

152/2016

36.	Applic	ation of series p	paralle	l combination				
		current divider		(B)		mum resistance		
	(C)]	power divider		(D) volta	ge divider		
37.	An ea	rthing electrode	usual	ly made of :				
	(A)	PVC pipe	(B)	carbon plate	(C)	glass rod	(D)	metal plate
38.	The co	olor of protectiv	e conc	luctor:				
	(A)	green - yellow	(B)	green - red	(C)	green - blue	(D)	green - black
39.	The c	olor of middle v					(17)	
	(A)	red	(B)	black	(C)	blue	(D)	green
			700					
40.		aple of primary		F 1:	(C)	Voltaic cell	(D)	Nickel - iron cell
	(A)	Lead acid cell	(B)	Edison cell	(C)	voltaic cen	(-)	
-				flood acid cell				
41.		amp-hour efficie	(B)	with the state of		80 - 85%	(D)	60 - 65%
	(A)	75%	(0)					
42.	High	rate discharge	tester	consists of :				
42.		low range ami			B) high	n range voltmeter		
	(C)	low range volt		((D) high	h range ammeter		
	(-)							
43.	The	color of fresh Si	lica ge	ll is:				
	(A)	Blue	(B)	The second second	(C)	Black	(D)	Light pink color
44	. Ima	ginary line joini	ng the	two poles of a	a magnet	:		
	(A)	magnetic equ	ator		40.0	gnetic pole		
	(C)	magnetic line	s		(D) ma	gnetic field		
					7			152/2016

-		tor copper loss o	i a uur	ee phase inducti	on mo	tor is:		
	(A)	Fractional slip	×in	put power to the	e rotor			
	(B)			tput of the rotor				
	(C)							
	(D)							
46.	1 M	letric horse power	er is :					
		742 W	(B)	735 W	(C)	735.6 W	(D)	746 W
					(-)	755.5 11	(D)	7+0 VV
47.	The	back emf set up	in the	stator of a sync	hronou	ıs motor will de	nend o	n .
	(A)	rotor speed on		(B		for speed only	pena o	
	(C)	rotor emf		(D		or excitation		
					,	- CACITATION		
48.	The	armature Wdg o	of repu	lsion motor is e	xcited :			
	(A)	resistively	(B)	inductively	(C)	conductively	(D)	capacitively
					1-,		(0)	capacitively
49.	The	main disadvanta	ige of	shaded pole mo	tor:			
	(A)	low starting to		(B)		over load capa	city	
	(C)	low efficiency		(D)		he above		
50.	The a	armature flux op	poses	the main flux is	in syn	chronous machi	ne whe	en the PF is:
	(A)	unity	(B)	zero lagging		zero leading	(D)	
51.	Diele	ctric strength of	a med	ium is:				
	(A)	Joules/m ²	(B)	Coulomb/m ²	(C)	kV/mm	(D)	Volt/m ²
52.	Electr	ric intensity is ex	presse	d as:				
	(A)	webber	(B)	Volt/m	(C)	emf	(D)	coulomb
53.		ever two charge	s are s	separated there	exist:			
		magnetic field		(B)	electr	ric field		
	(C)	electrostatic field	i	(D)	emf			
152/	2016							
	-010			8				

54.	Pote	ntial inside the hollow	charged sph	ere:				
	(A)	less than its surface		(B)	great	er than on its st	ırface	
	(C)	same as on its surface		(D)	zero			
55.	Capa	acitance in any circuit is	opposition	to:				
	(A)	voltage		(B)	curre	ent flow		
	(C)	any change in current		(D)	any o	change in powe	r	
56.	The	simple measuring ins	trument us	ed to	trans	fer measureme	nt from	the steel rule to
	obje	Total Control Control	11.		(C)	a-dh-r	(D)	punch
	(A)	try-square (B)	calliper		(C)	scriber	(1)	punch
				11	licein	ate the nower of		
57.		m resistance having cu	8 J	WIII		2 W	(D)	4 W
	(A)	8 W (B)	01		(0)	- "	(-)	
	10.11	ne diameter of a wire is	doubled ke	ening	the le	noth constant th	ne resist	tance :
58.			doubled Re	(B)		ome twice		
		becomes one fourth		(D)		omes 4 times		
	(C)	remains same		(5)	CLL			
EO	TA/Ib	ich of the following is l	inear and bi	latera	l elem	nent?		
59.		Semiconductor (B)			(C)	electron tube	(D)	transistor
	(12)	Semiconductor (5)						
60.	Wh	y accumulators are pre	ferred to pn	ny cel	l in m	otor car ?		
00.		they are bulk		(B)	they	have high inte	rnal res	istance
	(C)	they can be recharge	d	(D)		he above		
	(-,							
61.	Sed	limentation occurs in le	ad acid cell	to:				
	(A)	over charging at high	h rate	(B)	ove	r charging at slo	w ratir	ng
	(C)	no use for longer per	riod	(D)	slov	w charged rate		
62.	Kir	chhoff's law are valid f	or:					
	(A)	linear circuit			(B)			
	(C)	both linear and non-	linear circu	it	(D)	passive circui	t	

63.	The	algebraic sum	of all II	R drops and	emf i	n any	closed loop o	f a netwo	ork as per KVL is :
	(A)	+ve	(B)	zero		(C)	-ve	(D)	+ve or -ve
64.	For	m factor is the	ratio of						
	(A)				(B)	ave	rage value ×	rms valu	e e
	(C)	instantaneou	74		(D)		s value/avera		
65.	The	power factor o	f the in	ductive load	l is:				
	(A)	leading	(B)	lagging		(C)	unity	(D)	zero
66.	A ch	noke coil has :							
	(A)	high inductiv	e, high	resistance	(B)	low	inductive, lo	w resistar	nce
	(C)	low inductive	, high	resistance	(D)	high	h inductive, lo	w resista	nce
67.	A ch	noke is used for	limitin	g current in	1				
	(A)	AC ckt only			(B)	DC	ckt only		
	(C)	both AC and	DC		(D)	eith	er AC or DC		
68.	Impe	edance at series	resona	ince circuit :					
	(A)	maximum	(B)	average		(C)	minimum	(D)	all the above
69.	Powe	er factor is defi	ned as						
	(A)	kVA/kVAR	(B)	kVA/kW		(C)	kW/kVA	(D)	kW/kVR
70.	2 Wa	attmeter methoder factor :	d measi	aring power	, 2 m	eters :	read equal and	d opposit	e reading the load
	(A)	zero	(B)	0.5		(C)	unity	(D)	above 0.5
71.	The s	secondary curre	ent of 4	00 kVA, 11k	V/43	3V, 3	phase transfo	rmer is a	bout :
		420 A	(B)	533 A		(C)	666.5 A		840 A
152/	2016				10				DESCRIPTION OF THE PARTY OF THE

72.	The c	urrent rating of	400 m	ım² AYFY c	able is	:			
	(A)	400 A	(B)	435 A		(C)	305 A	(D)	335 A
73.	The r	naximum efficier	ncy of	distribution	n trans				
	(A)	1/4 th load	(B)	full load		(C)	3/4 th load	(D)	half load
74.	Unit	of luminous inte	nsity						
	(A)	lumen	(B)	lux		(C)	candela	(D)	lumen/m
75.	The 1	most efficient lan	np:						
	(A)	graphene			(B)	LED			
	(C)	CFL			(D)	sodi	um vapour lamp		
76.	The !	larger transforme	er step	oped core ar	ranger	ment :	is used to minim	ize the	e use of :
		core	(B)				hysteresis loss		core loss
77.	Exar	nine the Commu	tator	and brushe	s :				
	(A)	weekly mainter	nance		(B)	mor	thly maintenance	е	
	(C)	daily maintena	nce		(D)	year	ly maintenance		
78.	In D	C generator the	voltas	ge drop of c	opper-	carbo	n brush is about	:	
		1.6 V	(B)	2 V		(C)	1.75 V		0.3 V
79.	Alto	rnator voltage re	oulati	ion is determ	nined l	by en	of method. It is d	lue to	
, , .	(A)	Rothert	0		(B)		n-Eschenberg		
	(C)	Faraday			(D)	Poir	nter		
	1								
80.	The	starting torque	of cap	acitor start,	capaci	itor ru	ın is about :		
	(A)	200% of FL tor	que		(B)	50%	of FL torque		
	(C)	300% of FL tor	que		(D)	100	% of FL torque		
					11				152/20

81.	The	first Director Ge	The first Director General of Archaeological Survey of India :									
	(A)	Mountbatten			(B)	Alex	kander Cunning	ham				
	(C)	Wheeler			(D)	Erne	est Mackey					
82.	Nan	ne the first Indian	to w	in the Work	d Am	ateur	Billiards Title.					
	(A)	Wilson Jones			(B)	Kan	naljit Sandhu					
	(C)	Ravi Shastri			(D)	K. N	lalleswari					
83.	In w	hich place the G	reat V	ictoria Dese	rt is l	ocated	1?					
	(A)	Canada	(B)	Africa		(C)	Asia	(D)	Australia			
84.	Nam	ne the Kerala rule	er who	gave his co	ountry	to Si	ri Padmanabha a	s Trip	adidana.			
	(A)	Saktan Tampur	ran		(B)	Swa	ti Tirunal					
	(C)	Marthanda Var	rma		(D)	Ram	a Varma					
oe	YA7L			G 11:3								
85.		was known as I		er Gandhi ?	/Ps							
	(A)	Abdul Kalam A		101	(B)		ammed Iqbal					
	(C)	Khan Abdul Gl	nafar I	Knan	(D)	Patel						
86.	In w	hich year Mount	batten	Plan was a	nnou	nced i	n India ?					
	(A)	1947	(B)	1946		(C)	1945	(D)	1948			
87.	Direc	tor of the film "	Tamas	" explaining	g abou	it part	tition of India:					
	(A)	Satyajit Rai			(B)	Govi	nd Nihalani					
	(C)	Mrinali Sen			(D)	Nara	in Bharati					
88.	In wi	hich voor Sadkui	2000	rinalanau		- h - 1 - 1 !	h-12					
		hich year Sadhuj 1903			am es			450				
	(11)	1703	(B)	1905		(C)	1907	(D)	1910			
152/	2016				12							

89.	Name the event which is rel	ated to Savarna	Jatha.		
	(A) Shanar Agitation	(B)	Quit India Movement		
	(C) Attingal Revolt	(D)	Vaikkom Satyagraha		
00	What is the name of spice w	thich is called as	"Yayanapriya" ?		
90.		Pepper	(C) Cinnamon	(D)	Cardamom
	(A) Ginger (B)	repper	(C)	NT (
91.	Who was the Viceroy of Ind	lia during the tin	ne of Round Table Conf	erence	s ?
	(A) Lord Canning	(B)	Ramsay Mac Donald		
	(C) Lord Curzon	(D)	Lord Irvin		
			t to Low England	n May	omant :
92.	The First person who offer			n wiev	entert.
	(A) Vinobha Bhave	(B)	Dr. B.R. Ambedkar		
	(C) Vallabhbhai Patel	(D)	Narendra Dutta		
93.	In Which Year Historic Lah	ore session of In-	dian National Congress	held?	
200	(A) 1919 (B)	1929	(C) 1930		1942
					(C . (T !:
94.	Which is the Name of Com Act of 1919 ?	mission sent to I	ndia to enquire about th	e wori	k of Govt. of India
	(A) Crips Mission	(B)	Wardha Commission		
	(C) Simon Commission	(D)	Cabinet Mission		
			Characa 2		
95.	Which is the birth place of		The second secon	(D)	Kainakari
	(A) Bharanaganm (B)	Mannanam	(C) Mezhathur	(D)	Kamakan
96.	Pattanam was situated in	the banks of rive	er		
,	(A) Pamba (B)		(C) Periyar	(D)	Kurumali puzha
		1	3		152/2016
A					(P.T.O.)

97.	The	Yarkungzangbo river in India is k	nown	as _			
	(A)	Brahmaputra (B) Mahanadi		(C)	Kaveri	(D)	Sindhu
98.	The	Power to Prorogue the Lok Sabha	rests	with			
	(A)	Speaker (B) President		(C)	Supreme Court	(D)	Prime minister
99.	Who	is the Founder of Samatwa Samaj	?				
	(A)	Chattampi swamikal	(B)	Ayy	ankali		
	(C)	Vaghbhatananda	(D)	Vaik	unda Swamikal		
100.	The	Political Guru of Mahatma Gandhi					
	(A)	Gokhale	(B)	Tilak			
	(C)	Surendra Nath Banerjee	(D)	Dada	abhai Naoroji		
			000				

152/2016