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1.	Whic	h one of the follo	wing	is called as valer	ice ele	ctron in an atom	?	
	(A)	No. of electrons						
	(B)	No. of electrons						
	1000	No. of electrons						
	(D)	No. of electrons						
2.	One	mega ohm is equ	al to	ohm.				
	(A)	1×10 ⁶	(B)	1×10^{-6}	(C)	1×10^3	(D)	1×10^{-3}
3.	Whic	h factor does not	depe	nd on resistance	of the	conductor amor	g the	following factors?
	(A)	Length	(B)	Material	(C)	Voltage	(D)	Temperature
4.	Whic	ch material has th	e neg	ative temperature	e co -	efficient among (the fol	lowing ?
	(A)	Copper	(B)	Aluminium	(C)	Tungsten	(D)	Carbon
5.	The	equivalent resistan	ice of	the parallel circuit	is	than the	smalle	st single resistance.
	(A)	Greater	(B)	Smaller	(C)	Equal	(D)	Half
6.		total value of two arallel. Find the v				nnected in series	and 6	Ω when connected
	(A)	10 Ω, 15 Ω	(B)	12 Ω, 13 Ω	(C)	20 Ω, 5 Ω	(D)	19 Ω, 6 Ω
7.		of the wires can t be used for accu					uge.	Which instrument
	(A)	Vernier calliper	(B)	Depth gauge	(C)	Fuel gauge	(D)	Micro meter
8.		solder used for so nd lead of solder				f tin and lead. W	hat is	the combination of
	(A)	Tin 50%, lead 56	0%	(B)	Tin	60%, lead 40%		
	(C)	Tin 35%, lead 6	5%	(D)	Tin	90%, lead 10%		
9.	Wha	at is the use of Eur	reka v	wire ?				
	(A)	Rheostat	(B)	Heating elemen	nt (C)	Earth wire	(D)	Winding wire

10.	Wh	at is the unit of	f work d	one in SI units	?			
	(A)	Erg	(B)	Kg Meter	(C)	Dyne	(D)	Joule
11.	One	watt is define	e as					
	(A)	Joule-second	(B)	Joule per mi	nute (C)	Joule per seco	nd (D)	Joule-minute
12.	The	commercial u	nit of Ele	ectrical energy	is			
	(A)	Joule	(B)	Kilowatt hor	ur (C)	Watt - hour	(D)	Ampere hour
13.	An o Wha	electric installa	tion cons	ists of ten ligh er ?	t points o	f 60 watts each,	used fo	or only one second
	(A)	60 watts	(B)	6 watts	(C)	600 watts	(D)	0.166 watts
14.	An i	ndustry has 10 iired ?	00 numbe	ers of 200 watt	light load	l. How many n	umbers	of sub circuits are
	(A)	10	(B)	25	(C)	5	(D)	4
15.	(A) (B) (C) (D)	4 positive pla 5 positive pla 5 positive pla	ate and 4 ate and 4 ate and 5	negative plate negative plate negative plate negative plate negative plate	e e	s are placed in	a 9 plat	e lead acid cell ?
16.		capacity of sto						
	(A) (C)	Full voltage r Ampere hour				ere rating ge rating		
17.	Whi	ch type of DC	generato	r is used for b	attery cha	arging ?		
	(A)			d generator (E	The second second	t generator		mot matter of
	(C)	Differential co	ompound	d generator (I	O) Series	generator		VN (A)
18.	In w	hich type of D	C motor,	two point sta	rter is use	ed ?		with the part of the
	(A)	Series motor		(E	3) Shun	t motor	octanh	ne state out
	(C)	Long shunt co	ompound	d motor (I) Short	shunt compou	nd mot	or · · · ·
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19.	A pe	manent magnet	movi	ng con misu	umen	t will	reau .			
	(A)	Only AC quant	ities		(B)	Both	AC and DC	uantities		
	(C)	Only DC quant	ities		(D)	Puls	ating quantitie	S		
20.	Wha	t is the colour of	neutr	al in single	phase	or th	ree phase circu	its ?		
		Black	(B)	Blue			Yellow	(D)	Green	
21.	swite	lamp can be cont thes. How many ntrol a lamp fror	num	bers of inter	ocatio media	ns by ite sw	using intermed itches and two	liate swit way sw	tches and twi itches are rec	o way quirec
	(A)	Intermediate sw	ritches	s 2 and two	way	switch	nes 3			
	(B)	Intermediate sw	vitches	s 4 and two	way	switch	nes 1			
	(C)	Intermediate sw	vitches	s 1 and two	way	switch	nes 4			
	(D)	Intermediate sw	vitches	s 3 and two	way	switcl	nes 2			
22.		t will happen t	o the	value of e	earth	resist	ance if the le	ngth of	the earth p	ipe is
	(A)	Increase			(B)	Deci	rease			
	(C)	Remain same			(D)	Non	e of the above			
23.	Wha	t is the SWG of o	coppe	r earth cond	luctor	if the	maximum circ	cuit curre	ent is 15 A ?	
		No. 14	(B)	No. 10			No. 12		No. 8	
24.	Wha	t is the thickness	of co	pper plate i	used fo	or ear	th electrode ?			
		6.3 mm	(B)	3 mm			3.3 mm	(D)	3.15 mm	
25.		nt is the number	of p	oles if the	speed	l is 30	000 RPM and	frequen	cy is 50 Hz	of an
	(A)	4	(B)	2		(C)	6	(D)	8	
26.	Alte	rnators are rated	l in _							
	(A)	KW	(B)	HP		(C)	KVA	(D)	KVAR	
27.	Wha	nt is the working	princ	iple of a tw	o win	ding t	ransformer ?			
	(A)	Self-induction			(B)		tual induction			
	(C)	Principle of DC	moto	or	(D)	Len	z's Law			

28.	The	core loss in a tra	ansfori	ner is const	ant d	uring	Name of the			
	(A)	quarter load	(B)	half load		(C)	full load	(D)	all load	
29.	Sinc	e transformer is iency of a transfo	a stat	ic device, it	has	a very	high efficience	ey. Wha	at is the normal	1 %
	(A)	75-80%	(B)	80-85%		(C)	85-90%	(D)	Above 90%	
30.	Whi	ch of the following	ng spe	ed is called	syncl	ronou	s speed in thre	e phase	induction moto	or?
	(A)	Speed of the ro			,					
	(B)	Speed of the sta								
	(C)	Speed of the ro		magnetic fie	eld					
	(D)	Speed of the flu		H. Santa la 12		r				
31.	Whe	en a speed of a uency ?	n ind	uction mot	tor is	incre	eased, what v	vill hap	pen to the ro	tor
	(A)	Decrease	(B)	Increase		(C)	Remain const	ant	(D) Zero	
32.	Wha	t is the main diff rrel cage induction	erence	in the cons	tructi	ion of	slipping induc	tion mot	or as compared	to
	(A)	The rotor havin	g skev	ved slots						
	(B)	Rotor is wound	with	three phase	wind	ling ar	nd connected in	star		
	(C)	The copper bars	are ir	serted into	the re	otor sl	ots		fire and	
	(D)	The ends of the	rotor	are embedde	ed					
33.	Whic	ch is the cause fo	ra3p	hase induct	ion n	notor f	ailing to start ?		work of	
	(A)	Incorrect size of			(B)		frequency			
	(C)	Stiff bearing			(D)		in ventilation d	luct	C. Covers	
34.	Wha	t is the effect of s	ingle 1	phasing in t	hree	nhase	induction moto	2 2	Bo neill at Aut W	
	(A)	Motor will not r		•	(B)		due to overhe	150.0	galeria (A)	
	(C)	No change in ru			(D)		make humming	2 10	summed for	
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35.	. A 6 pole induction motor is connected to a 50 C/S supply. It is running at 970 rev/min. What is the percentage slip?										
	(A)	3%	(B)	4%		(C)	5%		(D)	6%	
36.		n motor is fed wi n a motor is fed v									e load.
	(A)	Low current	(B)	Normal cu	irrent	(C)	Excess cu	irrent	(D)	Zero curre	nt
37.	White	ch is the correct or?	method	to change	e the	direct	ion of rota	ation o	f a pe	rmanent caj	pacitor
	(A)	By interchanging	g the si	upply tern	ninals.						
	(B)	By interchanging	g auxil	iary windi	ng ter	minal	ls.				
	(C)	By interchanging	g capa	citor termi	nals.						
	(D)	By interchanging	g the re	otor position	on.						
38.	Wha	What will happen to the universal motor when it is started without load?									
	(A)	It will not run			(B)	Run	with very	low sp	eed		
	(C)	Run with very h	igh spe	eed	(D)	Run	with norm	nal spe	ed		
39.		of the main specif iling fan ?	ication	s of ceiling	fan is	sweej	size. Wh	at does	the sv	veep size rep	oresent
	(A)	Length of each l	olade								
	(B)	Twice the length	of one	e blade							
	(C)	The size of the f	an hou	sing							
	(D)	Two times of the	e radiu	s of the pe	rform	ed by	the blade	circle			
40.	Whie	ch type of single p	phase r	notor has	very h	igh st	arting toro	que ?			
	(A)	Permanent capa	citor t	ype	(B)	Dou	ble capacit	or mot	tor		
	(C)	Universal motor			(D)	Capa	acitor start	induc	tion r	un motor	
41.	Whi	ch part of the PM	IMC in	strument p	orodu	es ed	dy current	damp	ing ?		
	(A)	Moving coil			(B)	Alur	ninium for	rmer			
	(C)	Permanent mag	net		(D)	Soft	iron cyline	drical c	ore		

42.	Whi	ich quantity can	be me	asured by t	using d	lynan	nometer type w	att mete	er?	
	(A)	AC and DC p	ower		(B)	AC	power only			
	(C)	DC power on	ly		(D)	KW	Н			
43.	Inst	rument used to	measuı	re very high	ı value	of re	sistance is :			
	(A)	Ohm meter	(B)	Multimet	er	(C)	Meter bridge	(D)	Megger	
44.	Amo	ong the following	ng, whi	ch device c	annot l	oe use	ed as a safety d	evice ?		
	(A)	Fuse	(B)	Earth tes	ter	(C)	Circuit break	er (D)	ELCB	
45.	Whi	ch is the working	ng prin	ciple of an	instrur	nent i	ransformer ?			
	(A)	Self - inductio	n		(B)	Len	z's law			
	(C)	Mutual induc	tion		(D)	Flen	ning's right han	d rule		
46.	A cl	ip-on meter is t	ised to	measure _						
	(A)	Power	(B)	Resistanc	e	(C)	Voltage	(D)	Current	
47.	The Whi	energy meter di	sc com	pletes 800 r	evoluti	ions in	n 8 minutes wh	en 2 kW	load is connec	ted
	(A)	6000	(B)	2500		(C)	3000	(D)	4500	
48.	Wha	t happens if the	e outpu	t filter capa	citor is	s oper	ned in a battery	charge	r ?	
	(A)	It will not wor	k		(B)	Mak	e humming noi	ise		
	(C)	High output			(D)	Take	more output o	current		
49.	Swite	ch board is fixe	d at a l	neight of		as	per IE rules.			
	(A)	1.5 M	(B)	2.5 M		(C)	2 M	(D)	3 M	
50.	How	many light poi	ints are	allowed in	one ci	rcuit '	?			
	(A)	15 points	(B)	12 points		(C)	14 points	(D)	10 points	
51.	Batte	n wiring is reco	mmen	ded for whi	ich of t	he fo	llowing wiring	?		
	(A)	Industrial	(B)	Power		(C)	Permanent	(D)	Temporary	

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52.	Earth	ning is done for p	rovid	ing a path to	grou	ind:					
	(A)	High voltage	(B)	Leakage cu	ırrent	(C)	Over curr	ent	(D)	Circuit curren	t
53.	The :	rating of fuse is e	expres	sed in terms	s of _		_				
	(A)	KVA	(B)	KVAR		(C)	Voltage		(D)	Current	
54.	A de	layed action cart	ridge	fuse is for							
	(A)	Lighting circuits			(B)	Heat	ing circuits				
	(C)	Motor circuits			(D)	Fluor	rescent lam	p circu	ait		
55.	In co	entinuity test, sho	ort in a	an installatio	on is i	ndical	ted in a Me	egger l	оу	-	
	(A)	500 ΜΩ	(B)	Infinity M	Ω	(C)	1 ΜΩ	(D)	0 M	3	
56.	A fo	ur pole 1200 RPN	A alte	rnator will g	genera	ite em	f at a frequ	iency	of		
	(A)	25 Hz	(B)	40 Hz		(C)	50 Hz	(D)	60 H	İz	
57.	A lea	ad acid cell is rec	charge	eable becaus	e						
	(A)	it is a wet cell			(B)	its el	ectrolyte ha	as high	spec	ific gravity	
	(C)	its chemical read	ction i	s reversible	(D)	its el	ectrolyte is	H ₂ SO	4		
58.	The	metal used for th	ne con	trol spring i	in an	electri	cal instrum	ent is			
	(A)	Steel			(B)	Nich	rome				
	(C)	Hard drawn co	pper		(D)	Phos	phor bronz	ze			
59.	The	fixed coils of a d	ynam	ometer are i	used a	ıs	in	a watt	mete	r.	
	(A)	Deflecting coil			(B)	Press	sure coil				
	(C)	Current coil			(D)	Both	pressure a	nd cui	rrent	coil	
60.	The	maximum currer	nt that	can pass th	rough	a 2 s	2, 2 watt re	sistor	will I	pe:	
		1 A		3 A			2 A			4 A	

61.	The	function of curre	nt rev	verser in the	e earth	teste	r is		
	(A)	to convert AC i	nto D	C	(B)	to in	vert AC into DC	2	
	(C)	to reverse the co	urren	t direction	(D)	to in	vert DC into AC		
62.	One	BOT unit is equa	al to						
	(A)	1000 Wh	(B)	746 Wh		(C)	1500 Wh	(D)	1200 Wh
63.	Whe	n the phase and	neutr	al of an ene	ergy n	neter a	are inter change	d, its d	isc
	(A)	rotates in revers	e dire	ection	(B)	rotal	es in correct dir	ection	
	(C)	will stop			(D)	will	rotate slowly		
64.	The	quantity of scale	on th	e dial of the	Multi	meter	at the top most	is:	
	(A)	DC current	(B)	AC curren	nt	(C)	AC voltage	(D)	Resistance range
65.	The	resistor element 1	used	in fan regul	ator is				
	(A)	Eureka	(B)	Carbon		(C)	Nichrome	(D)	Tungsten
66.	The	dielectric strengtl	h of i	nsulation is	called	ı			
	(A)	Barriers voltage			(B)	Peak	inverse voltage		
	(C)	Breakdown volt	age		(D)	Peak	voltage		
67.	Sold	ering is done on	joints	to improve					
	(A)	tensile strength	(B)	resistivity		(C)	ductility	(D)	conductivity
68.		en the disc of an e	nergy	v meter is ro	otating	even	without connec	ting an	y load, the error is
	(A)	Creeping error	(B)	Phase erro	or	(C)	Friction error	(D)	Speed error
69.	Cells	s are connected in	n seri	es to					0.00
	(A)	decrease the out	tput v	roltage	(B)		ase the output v		
	(C)	decrease the int	ernal	resistance	(D)	incre	ease the current	capaci	ty 37

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70.	In th	ne case of pure m	etallic	conductors, the	resista	nnce is		
	(A)	inversely propor	rtional	to the sp: resista	nce			
	(B)	directly proporti	ional t	to the cross section	nal ar	rea		
	(C)	directly proporti	ional t	to the length				
	(D)	none of the abov	/e					
71.		t percent is 40 pa						
	(A)	20%	(B)	80%	(C)	50%	(D)	10%
		nestra		The second second			2 .	
72.		length of a rectan rectangle ?	gle is	four times its wic	ith. I	f the area is 100 n	n², wł	nat is the length of
	(A)		201	25 m	100	5 m	(D)	20 m
73.	HCF	of 18, 24 and 36	is:					
	(A)	6	(B)	72	(C)	36	(D)	18
74.	(1.1)	$\frac{(1.2)^2}{100}$ is:						
		2.65	(B)	265	(C)	0.0265	(D)	0.265
75.	The	weight of 8 identi	cal ar	ticles is 4.8 kg. W	/hat is	the weight of 11	such	articles ?
	(A)	6 kg	(B)	6.6 kg	(C)	66 kg	(D)	0.6 kg
76.	The	ratio between two	quan	itities is 3:4. If t	he firs	st quantity is ₹81	0 find	the second.
	(A)	₹ 3240	(B)	₹ 2430	(C)	₹ 1080	(D)	₹ 1890
77.	8 - 4	$(3-2)+10 \div 5$ is:	-					
	(A)	10	(B)	8	(C)	6	(D)	7
78.		average height of age height become					oy jo	ins the group, the
		159 cm , 150 cm					(D)	176 cm

79.	$\frac{4}{7}$ of	a pole is in the n	nud.	When $\frac{1}{3}$ of	it is p	ulled	out 250 cm of	the pole	is still in the	mu
	Wha	t is the full lengt	h of t	he pole?						
		1050 cm	(B)	750 cm		(C)	850 cm	(D)	950 cm	
80.		ja can do a work ber of days neede					in 6 days. If th	ney both	work togethe	r, t
	(A)	$7\frac{1}{2}$	(B)	7		(C)	$5\frac{3}{5}$	(D)	3 3/5	
81.	The	first social organi	isatio	n in Kerala,	Sama	thwa	Samaj, was for	unded by	y:	
	(A)	Ayya Vaikunda	Swa	mikal	(B)	Kun	naraguru			
	(C)	Vagbhatananda	1		(D)	Sree	Narayana Gu	ru		
82.	Cher	mara, the birth p	lace o	of Vallathol	is in v	vhich	of the following	ng distric	ts ?	
	(A)	Thrissur	(B)	Ernamkul	am	(C)	Malappuram	(D)	Kollam	
83.	'Maz	ha Kanakkunnu'	is th	e work of :						
	(A)	Nirupama Rao	(B)	B. Sandhy	ra .	(C)	Anupama	(D)	Arundhti Re	ру
84.	Parti	tion of Bengal w	as car	ncelled in :						
	(A)	1905	(B)	1906		(C)	1907	(D)	1911	
85.	Pand	lit Karuppan was	s pop	ularly know	n as :					
	(A)	Father of Kerala	Ren	aissance	(B)	Kera	ila Gandhi	97		
	(C)	Kerala Kalidasa	1		(D)	Line	oln of Kerala			
86.	Sura	j Venjaramoodu :	receiv	red National	l Awa	rd for	best actor in	the film :		
	(A)	North 24 katha	m		(B)	Pera	riyathavar			
	(C)	Dam 999			(D)	Cell	uloid			
87.	The	southern most tip	of Ir	ndia is :						
	(A)	Kanyakumari			(B)		arattı	in the		
	(C)	Indira Point			(D)	Thir	uvananthapui	ram *	nested to	

88.	Who among the following was not a member of the cabinet mission?							
	(A)	Lord Pelhic Lawrence	(B)	George Simon				
	(C)	Stafford Cripps	(D)	A.V. Alexander				
89.	Α	nnkali was the founder of :						
07.	(A)	Nair Service Society						
	(B)	Sadhujana Paripalana Sangham						
	(C)	Sree Narayana Dharma Paripala	na Vo	gram				
	(D)	Atma Vidya Sangham	na ro	gani				
	(D)	Anta vidya bangham						
90.	The	longest river in India is :						
	(A)	Brahmaputra	(B)	Bharathappuzha				
	(C)	Ganga	(D)	Narmada				
01	Comm	Nanauana Cumi attained Samadhi	· ·					
91.		Narayana Guru attained Samadhi 1921 (B) 1925	int.	(C) 1928 (D) 1929				
	(A)	1921 (b) 1923		(C) 1723				
92.	The	first lady president of Indian Natio	onal C	Congress was :				
	(A)	Annie Besant (B) Indira Gar	ndhi	(C) Sarojini Naidu (D) Sonia Gandhi				
93.	Bhoo	odan Movement was organized by						
	(A)	Mahatma Gandhi	(B)	Jawaharlal Nehru				
	(C)	Vinoba Bhave	(D)	Baba Amte				
04	TATILL	ch of the following is the work of	VTF	Shattathirinad 2				
94.		Duravastha	(B)	Agnisakshi				
	(A) (C)	Mathilukal	(D)	Kanneerum Kinavum				
	(~)	Maumukai	(2)	Named and American				
95.	Gan	dhiji stopped Non-Cooperation Me	oveme	ent in protest against :				
	(A)	Malabar Rebellion	(B)	Chauri Chaura incident				
	(C)	Jallianwala Bagh Massacre	(D)	Wagon Tragedy				

First	Chief Minister of Telangana is:		
(A)	K. Chandrasekhar Rao	(B)	Jagan Mohan
(C)	Venkayya Naidu	(D)	Chandra Babu Naidu
Whi	ch one of the following is not an ea	ast flo	wing river ?
(A)	Kabani (B) Pampa		(C) Pambar (D) Bhavani
The	chairman of Indian Planning Com	missio	on is:
(A)	Prime Minister	(B)	Finance Minister
(C)	President of India	(D)	Governor of RBI
Higs	Boson is so named to honour an l	Indian	Scientist :
(A)	Jagadeesh Chandra Bose	(B)	Subhash Chandra Bose
(C)	Khudiram Bose	(D)	Sathyendranath Bose
Jame	es Rodrigus who won the golden b	oot in	Brazil World Cup Foot ball 2014 belongs to :
(A)	Germany (B) Argentina		(C) Netherlands (D) Columbia
		- 0 0	0 -
	(A) (C) Which (A) The (A) (C) Higs (A) (C) Jame	(C) Venkayya Naidu Which one of the following is not an early (A) Kabani (B) Pampa The chairman of Indian Planning Common (A) Prime Minister (C) President of India Higs Boson is so named to honour and (A) Jagadeesh Chandra Bose (C) Khudiram Bose James Rodrigus who won the golden by	(A) K. Chandrasekhar Rao (B) (C) Venkayya Naidu (D) Which one of the following is not an east flo (A) Kabani (B) Pampa The chairman of Indian Planning Commission (A) Prime Minister (B) (C) President of India (D) Higs Boson is so named to honour an Indian (A) Jagadeesh Chandra Bose (B) (C) Khudiram Bose (D) James Rodrigus who won the golden boot in (A) Germany (B) Argentina