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1.	The	ripple factor of a	halfv	wave rectifie	er is _		·		
	(A)	0.482	(B)	0.812		(C)	40.6	(D)	1.21
2.	Whi	ch of the followir	ng is t	he fastest sv	vitchii	ng cor	nponent ?		
	(A)	MOSFET	(B)	JFET		(C)	ВЈТ	(D)	pentode
3.	The	final power amp	lifier i	in a radio tr	ansmi	itter s	tation is usually	0	·
	(A)	Class A	(B)	Class B		(C)	Class C	(D)	Class AB
4.	In A	M radio receiver	the o	oscillator fre	quenc	y is _			
	(A)	incoming signal	- 45	55 kHz	(B)	inco	ming signal + 4	155 kHz	
	(C)	equal to signal f	reque	ncy	(D)	equa	l to 455 kHz		
5.	The	voltage gain of a	n emi	tter followe	r conf	igurat	ion can not be	more th	nan
	(A)	1	(B)	0.5		(C)	10	(D)	100
6.	The	doping concentra	tion i	n zener dio	de is				
	(A)	very low	(B)	very high		(C)	zero	(D)	infinity
7.	Bina	ry number system	n uses	ş	_ sym	bols.			
	(A)	16	(B)	10		(C)	8	(D)	2
8.	Trin	nmer is a variable							
	(A)	resistor	(B)	inductor		(C)	capacitor	(D)	none of these
9.	The	number of turns	in sec	ondary of a			_ transformer is	more t	han the primary.
	(A)	step - down	(B)	step - up		(C)	230 V to 6 V	(D)	11 kV to 230 V
A					3				

10.	In a PN junction diode the barrier potential offers opposition to						
	(A) Minority charge carriers in both regions						
	(B) Majority charge carriers in both regions						
	(C) Holes in N region						
	(D) Electrons in P region						
11.	Negative feedback in amplifier the stability of its voltage gain.						
	(A) increases (B) decreases (C) does not affect (D) none of these						
12.	The time-base of a CRO is waveform.						
	(A) sawtooth (B) sine (C) square (D) rectangular						
13.	Moving iron meter is usually used for measurement of						
	(A) AC and DC (B) DC only (C) AC only (D) None of these						
14.	Integrator is a filter.						
	(A) high pass (B) low pass (C) band pass (D) band stop						
15.	OP-AMP may be used as :						
	(A) summing amplifier (B) voltage comparator						
	(C) differentiator (D) all the above						
16.	The timer IC 555 is available in package.						
	(A) 3 pin (B) 14 pin DIP (C) 8 pin DIP (D) 16 pin DIP						
17.	ICPT stands for						
17.	IGBT stands for (A) Insulated Gate-Based Thyristor (B) Insulated Gate Bipolar Thyristor						
	(A) Insulated Gate-Based Thyristor (B) Insulated Gate Bipolar Thyristor (C) Intrinsic Gate Bipolar Transistor (D) Insulated Gate Bipolar Transistor						
	(C) Intrinsic Gate Dipolar Transistor (D) Insulated Gate Dipolar Transistor						
18.	IC 7912 is						
	(A) Two input Quad XNOR gate						
	(B) Two input Quad XOR gate						
	(C) Negative voltage regulator for 12 V						
	(D) Positive voltage regulator for 12 V						

19.	In O	n-line UPS, the	batter	y is connected				
	(A)	All the time to	the in	verter (1	B) Du	ring mains failt	ire	
	(C)	During chargin	g time	e only (1	D) All	the above		
20.	The	program counte	r in 80	985 microproce	essor is	of t	oit.	
	(A)	8	(B)	16	(C)	4	(D)	32
21.	Whi	ch of the following	ng is a	bidirectional o	device ?			
	(A)	Zener diode	(B)	SCR	(C)	LED	(D)	Triac
22.	Hen	ry is the unit of		•				
	(A)	Capacitance	(B)	Power	(C)	Inductance	(D)	Resistance
23.	A ha	ılf adder circuit	can ac	ld	bits at	a time.		
	(A)	2	(B)	3	(C)	4	(D)	1
24.	Whi	ch of the following	ng is a	single input fl	lip-flop	?		
	(A)	R-S	(B)	D	(C)	JK	(D)	Clocked RS
25.		e constant of RC s final steady val		is the time du	iring wl	nich capacitor v	oltage ris	es to%
	(A)	50	(B)	100	(C)	63	(D)	70.7
26.	Whi	ch of the following	ng is a	n insulator ?				
	(A)	Ferrite	(B)	Germanium	(C)	Silicon	(D)	Zinc
27.	Anti	mony is a		type doping r	naterial			
	(A)	Trivalent	(B)	Semiconduct	tor (C)	Acceptor	(D)	Pentavalent
28.	A dy	namic microphe	one is	a	type tra	nsducer.		
	(A)	Acoustical		(1	B) The	ermal		
	(C)	Optical		(1	D) Va	riable resistance		
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29.	The function	n of NOT gate	is to	-				
	(A) Invert	an input signa	1	(B)	Add	two input signa	ls	
	(C) Multip	ply two input si	gnals	(D)	Perf	orm as a univers	al gate	
30.	The channe	l width in PAL	system is _					
	(A) 5.5 M	Hz (B)	4.433 MH	z	(C)	38.9 MHz	(D)	7 MHz
31.	Clamping c	ircuits make us	e of adding	a		_ level into an a	ac sign	al.
	(A) Zero	(B)	DC		(C)	AC	(D)	Negative
32.	Which of th	e following stat	tements is no	ot rela	ited to	Ohm's law?		
	(A) Curre	nt is directly pr	oportional to	o Pd				
	(B) Curre	nt is inversely p	proportional	to res	sistano	e		
	(C) Law is	s applicable to	de circuits					
	(D) Law is	s independent o	of temperatu	ire				
33.	Which of th	e following is n	ot used for	makin	g LEI	?		
	(A) Germa	anium		(B)	Galli	um arsenide		
	(C) Galliu	m phosphide		(D)	Galli	um arsenide pho	osphid	e
34.	In SCR if th	e conduction a	ngle is less,	the or	ıtput,	is		
	(A) More	(B)	Less		(C)	Not affected	(D)	Infinity
35.						50 Hz supply is		
	(A) 50	(B)	25		(C)	100	(D)	60
						To the last		
36.		on point of tran						
	(A) Zero	(B)	V _{CC}		(C)	One	(D)	Infinite
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A

37.		multistage ampl vidual stages.	ifier,	the overall	voltag	ge gan	n is equal to _		of the gains of
	(A)	Sum	(B)	Half		(C)	Product	(D)	Gain of one stage
38.	AM	wave has		side bands					
	(A)	no	(B)	one		(C)	a number of	(D)	two
39.	IF ir	AM radio receiv	ers is	obtained b	у		_		
	(A)	Detection	(B)	Heterody	ning	(C)	Rectification	(D)	Amplification
40.	Bark	hausen criterion	is im	portant in					
	(A)	Oscillation	(B)	Rectificati	ion	(C)	Doping	(D)	Demodulation
41.	_	oscillator	is not	t a sinusoid	al osc	illator			
	(A)	RC phase shift	(B)	Wien brid	lge	(C)	Crystal	(D)	UJT relaxation
42.	The	statement not rel	ated 1	to a diac is			East 1		
	(A)	It is a two termi	nal de	evice	(B)	It is	an SCR without	its gat	e terminal
	(C)	It can be used to	trigg	ger a triac	(D)	It is	a bidirectional s	witchir	ng device
43.	The	image continuity	in m	otion pictur	es is c	btaine	ed by the prope	rty of _	*
	(A)	Doppler effect			(B)	Skin	effect		
	(C)	Photoelectric eff	fect		(D)	Persi	stence of vision		
44.	dB i	s used to measur	e						
	(A)	power level	(B)	power		(C)	voltage	(D)	magnetic flux
45.	Cros	s over distortion	occur	s in	t	ype of	amplifiers.		
	(A)	Class A	(B)	Class B		(C)	Class C	(D)	Push-pull
46.	The	leakage current i	n a tr	ansistor is			dependent on.		
	(A)	Temperature			(B)	Volta	age		
	(C)	Majority charge	carri	ers	(D)	Inpu	t signal		

A

47.	BJT	is									
	(A)	A typ	e of FET			(B)	A typ	pe of UJT			
	(C)	NPN	or PNP tra	nsisto	or	(D)	Bidir	ectional Junc	tion Trans	istor	
48.	Ator	nic nur	mber of Si	licon i	s						
	(A)	10		(B)	32		(C)	14	(D)	16	
49.	Yello	ow, Vic	olet, Red in	ndicat	es	_ Oh	ıms.				
	(A)	4.7		(B)	470		(C)	4.7 k	(D)	47 k	
50.			loss is no	t a tra	nsformer lo	ss.					
	(A)	Core		(B)	Copper		(C)	Hysterisis	(D)	Dielectric	
51.	SCR	has _		layers							
	(A)	PNNI	2	(B)	PNPN		(C)	PPNN	(D)	NPPN	
52.	A lo	gic circ	uit that ha	ıs a hi	gh output o	only w	hen a	ll its inputs a	re low is		gate.
	(A)	AND		(B)	NAND		(C)	NOR	(D)	OR	
53.	88-1	08 MH:	z band of	freque	encies is use	ed for		broade	casting.		
	(A)	TV		(B)	FM		(C)	AM	(D)	Defence	
54.	In F	M recei	ivers, limit	er is u	ised						
	(A)	For a	utomatic g	ain co	ontrol	(B)	To el	liminate ampl	litude vari	ations	
	(C)	To ma	aintain mi	nimun	n S/N ratio	(D)	To d	etect the audi	io signal f	rom carrier	
55.	The	freque	ncy range	used	for RADAR	is					
	(A)	UHF				(B)	VHF				
	(C)	UHF	and Micro	wave		(D)	Micr	owave			
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56.	App	roximate dist	ince of g	eostationary	satel	lite fro	om earth is _	-	-*	
	(A)	15,625 kms	(B)	30,000 kms		(C)	36,000 kms	(D)	80,000 kms	
57.	Reco	ording in com	pact disc	is done with	the	help o	of			
	(A)	Laser	(B)	UV light		(C)	IR light	(D)	None of these	
= 0		i								
30.		is not			- 3					
	(A)	RAM	(B)	ROM	ä	(C)	CD	(D)	Cache	
59.	A tv	vo diode recti	fier requi	res	·					
	(A)	Direct ac ma	ins		(B)	Cent	re tapped trai	nsformer		
	(C)	Low PIV rate	ed diodes	;	(D)	No fi	lters for smoo	thening		
60.	The	processor chi	p 8085A	has	p	ins.				
	(A)	14	(B)	16		(C)	40	(D)	80	
61.	The	heart of a CR	O is							
	(A)	Cathode ray	tube		(B)	Powe	er supply			
	377 (50	Vertical amp			3 33		zontal amplifi	er		
	m			1			T 100 1			
62.	The	function of th					.e ampiliter is	to	*	
	(A)	Act as a high	ı resistan	ce path for d	c sign	nals				
	(B)	Act as a low	resistano	e path for do	sign	als				
	(C)	Provide a lo	w resistar	nce path for a	ic sig	nals				
	(D)	Provide a hi	gh resista	nce path for	ac siş	gnals				
63.	The	minimum for Volt.	ward bias	voltage for a	a Ger	rmani	um PN junctio	on to set	into conduction	is
	(A)	0.7	(B)	0.6		(C)	0.1	(D)	0.3	

A

04.	The	width of the col	lector	layer in a transis	101 15			
	(A)	Equal to that o	f the b	ase region				
	(B)	Less than that	of the	base region				
	(C)	Much greater t	han th	at of the base reg	gion			
	(D)	Much less than	the er	mitter region				
65.	In N	JPN transistors,	the ma	ajority charge car	riers a	are		
	(A)	Holes	(B)	Electrons	(C)	Positive charges	s (D)	None of these
66.		diode is	used i	n reverse biased	condit	ion for its norma	l work	ing.
	(A)	Zener	(B)	Light emitting	(C)	Rectifier	(D)	Signal
67.	An	etchant used in	PCB n	naking is				
	(A)	Ferric Chloride		(B)	Am	monium Chloride	9	
	(C)	Carbon Tetraci	hloride	(D)	Cop	per Sulphate		
68.	The	most common c	ompor	nent used in ripp	le filte	er circuits is		
	(A)	Inductor	(B)	Resistor	(C)	Capacitor	(D)	Diode
69.		voltage i	s the r	maximum reverse	e volta	ge that a diode o	an wi	thstand.
	(A)	Peak inverse	(B)	Peak	(C)	Cut - in	(D)	Barrier
70.	Whe	en two capacitor	s are c	onnected in serie	es, the	effective capacit	ance is	
	(A)	Increases	(B)	Decreases	(C)	Doubles	(D)	Becomes unity
71.		en ten resistors ea		7 Ω are connected	l in pa	rallel, the net resi	stance	of the combination
	(A)	47	(B)	10	(C)	470	(D)	4.7
72.	The	quality factor 'C	y of an	n ideal inductor i	is			
	(A)	Unity	(B)	Zero	(C)	0.63	(D)	Infinity
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73.		is not	a variabl	e resistor.					
	(A)	Preset	(B)	Varactor		(C)	Rheostat	(D)	Potentiometer
74.	Insu	lation resistan	ce can b	e measured	using	g			
	(A)	Multimeter	(B)	Megger		(C)	Galvanom	eter (D)	Clampmeter
75.	Bista	able multivibra	tor is als	o called as					
	(A)	Monoshot			(B)	Sinu	soidal oscill	lator	
	(C)	Free running	multivib	orator	(D)	Flip-	flop		
76.	Colp	oitts oscillator u	uses	fee	dback				
	(A)	no	(B)	positive		(C)	negative	(D)	none of these
77.	The	binary number	r 1111 co	orresponds	to		hexadec	imal numl	ber.
	(A)	A	(B)	В		(C)	D	(D)	F
78.	The	voltage regulat	tion of a	n ideal regu	ulated	powe	r supply is		_%.
	(A)	50	(B)	100		(C)	1	(D)	0
79.	The	input impedan	ce of a J	FET is high	beca	use _			
	(A)	its gate is inst	ulated fro	om the char	nnel				
	(B)	its input is rev	verse bia	sed					
	(C)	of the presence	e of the	substrate					
	(D)	all the above							
80.		has no	gate ter	minal.					
	(A)	MOSFET	(B)	Triac		(C)	SCR	(D)	Diac
81.	Maza	agoan is famou	s for :						
	(A)	Iron ore expor	rt		(B)	Loco	motive engi	neering w	orks
	(C)	Co-operative	dairy far	ming	(D)	Ship	building		
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{P.T.O.}

82.	Whic	h of the followin	g rive	rs flows we	st war	d?			
	(A)	Krishna	(B)	Kavery		(C)	Narmada	(D)	Mahanadi
83.	Whic	h is not an ancie	ent tov	m?					
	(A)	Varanasi	(B)	Mumbai		(C)	Pataliputra	(D)	Prayag
84.	The l	east populated L	Inion '	l'erritory in					
	(A)	Pondicherry			(B)		aman Nicobar Is	sland	
	(C)	Lakshadweep			(D)	Chai	ndigarh		
					(ED)				
85.		han Mantri Fasal			MFBY)	aime	d to:		
	(A)	Crop Insurance							
	(B)	Eradication of I			Areas				
	(C)	National Rural							
	(D)	Upliftment of T	he Poo	or People					
01	TTL -	Don di Monch suo		nicad by C	andhii	i to .			
86.		Dandi March wa				1 10 .			
	(A)	Protest against		ies on rian	ijaris				
	(B)	Break the Salt I							
	(C)	Ask for poorna							
	(D)	Oppose Simon	Comm	ussion					
87.	Now	India and Comr	nonw	eal two new	vs nan	ers di	ring the Home	Rule	vere edited by :
07.	(A)	Mrs. Annie Bes		the the	(B)		angadhara Tilal		
	(C)	Gopala Krishna		ale	(D)		Lajpat Rai		
	(C)	Gopaia Kristina	GUKI	iche	(0)	Locate	bajpar Kai		
88.	Who	is the first wom	en pre	sident of Ir	ndian l	Nation	nal Congress ?		
	(A)	Sucheta Kripali			(B)		jini Naidu		
	(C)	Rajkumari Ami		our	(D)		Annie Besant		
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89.	Whi	ch is the Naval Port in	Kerala ?			
	(A)	Bepur (B)	Kochi		(C) Neendakara (D)	Alappuzha
90.	Para	mbikulam Wildlife Sa	nctuary is in	:		
	(A)	Palakkad		(B)	Thiruvananthapuram	
	(C)	Pathanamthitta		(D)	Idukki	
91.	In w	hich year Mahatma G	andhi visited	i Sree	Narayan Guru ?	
	(A)	1921 (B)	1920		(C) 1925 (D)	1922
92.	Whi	ch movement was star	rted by Kum	ara G	uru at Iraviperur ?	
	(A)	Ananda Mahasabha		(B)	Atma Vidya Sangam	
	(C)	Sahodara Sangam		(D)	Prathyaksha Raksha Daiva	Sabha
93.	Who	is the founder of Sad	lhujana Parip	palana	Yogam ?	
	(A)	Vaikunda Swamikal		(B)	Ayyankali	
	(C)	Swami Vagbhatanar	nda	(D)	Brahmananda Shivayogi	
94.	Who	popularised Arabic N	Ialayalam by	publ	ishing, monthly called AI Isl	am ?
	(A)	Vaikkom Muhamme	d Basheer	(B)	Vakkom Abdul Khader Ma	ulavi
	(C)	Moidu Maulavi		(D)	Kalathingal Muhammed	
95.		led the Vimochana Sa istry ?	maram whic	h resu	lted in the dismissal of the EM	1S Namboodiripad
	(A)	E.V. Ramaswami Na	icker	(B)	V.T. Bhattathiripad	
	(C)	Mannath Padmanab	han	(D)	K. Kelappan	
96.	Who	won the women's sir	ngle tennis ti	tle in '	Wimbledon, 2016 ?	
	(A)	Angelique Kerber		(B)	Veenus Williams	
	(C)	Elena Vesnina		(D)	Serena Williams	

97.	Who	is the present Chief	Minister of Arunac	hal Pradesh ?
	(A)	Pema Khandu	(B)	Nabam Tuki
	(C)	Khaliko Pul	(D)	Tathagath Roy
98.	Who	is the Chief Executiv	ve Officer (CEO) in	NITI Aayog ?
	(A)	Raghuram Rajan	(B)	Vishal Sikha
	(C)	Amitab Kant	(D)	Amitabachan
99.		is the famous Bolly an Team ?	wood filmstar sele	cted as Good Will ambassador to Rio-Olympic
	(A)	Amir Khan (B) Sharuk Khan	(C) Akshay Kumar (D) Salman Khan
100.	In w		nched IRNSS - 1G	from Satheesh Dhawan Space Centre Sri Hari
	(A)	28th April, 2016	(B)	22 nd June, 2016
	(C)	22 nd June, 2014	(D)	22 nd October, 2008
			-00	0 -