Based on Memory

			1.1011101	
1.	What is the value	of knee voltage of si	licon diode?	
	I) 0.3 V	2) 0.33 V	3) 0.7 V	4) 1.1 V
2.	Which organisation form the Indian Co		to constitute the Cons	stitution Assembly to
	l) Swaraj Party in	1928	2) Indian National	Congress in 1936
	3) Muslim League	in 1942	4) By all parties co	onvention in 1946
3.			d 15 volt across the d be the supply volta	
	1) 20 volt	2) 15 volt	3) 25 volt	4) 17.5 volt
4.	A transformer mai	nly transforms		
	l) Current	2) Voltage	3) Frequency	4) Power
5.	What is the power	r factor of a pure res	istor circuit?	
	I) One	2) Zero	3) Leading	4) Lagging
6.	Functions of N.S.I	D.L. are related to-		
	1) Bearer bonds	2) GDRs	3) Electronic share	4) Debenture
7.	There are rings around which of the following planets?			
	1) Uranus	2) mars	3) Jupiter	4) Saturn
8.	is used to heat the non-conductors.			
	1) Eddy current he	ating	2) Arc heating	
	3) Induction heating	ng	4) Dielectric heating	ng
9.	What is the S.I. U	nit of magnetic flux	density?	
	l) Gauss	2) Tesla	3) Oersted	4) Weber

10.	Which type of oscillator is most stable in simple circuit?			
	1) Crystalline oscill	ator	2) Clapp oscillator	
	3) Colpitts oscillato	г	4) Armstrong oscill	lator
11.	Where is the headqu	arters of Geologica	l Survey of India loc	cated?
	1) Patna	2) Dehradun	3) Kolkata	4) Agra
12.	What is the proper i	use of signal general	tor?	
	1) Designing	2) Testing	3) Repairing	4) All the above
13.	Nasik is situated on	the bank of which	river?	
	a) Godavari	2) Narmada	3) Tapti	4) Shipra
14.	Who started the Sha	ika era?		
	I) Ashoka		2) Chandragupta-II	I
	3) Kanishka		4) Harsha	
15.	If one cylinder of a	diesel engine receiv	es more fuel than the	others. then for that
	cylinder the			
	l) exhaust till be smoky			
	2) piston rings would stick into piston grooves			
	3) scavenging occur	rs .		
	4) engine starts over	rheating		
16.	The information is s	sent by CW transmi	tter by-	
	1) Changing the aud	lio frequency	2) Interrupting radi	o signal
	3) Using microphon		4) Using camera	
17.	. Moisture can be removed from lubricating oil using			
	1) Tubular centrifug	al	2) Clarifier	
. 0	3) Sparkler filter		4) Vacuum leaf filte	er
18.	The rank of the fol	lowing matrix is-		
	0			
	0			
	1 0 1	2). [3) 0	1) 2
10	1) 0	2) 1	3) 2	4) 3
19.	Germanium possess		2) There will be a	
	1) Two valence elec		2) Three valence el	
	3) Four valence elec	ctrons	4) Five valence ele	CUTONS

20.	Share of export from	n India is the maxin	num to the following	country-
	I) U.S.A.	2) U.K.	3) U.A.E.	4) Japan
21.	Which of the follow	ring is not a propert	y of difference ampl	ifier?
	1) Capacitor is used	in it	2) It is used to com	pare two signals
	3) Difference ampli	fier yields more tha	n the direct couple a	mplifier
	4) Frequency of diff	ference amplifier re	mains flat from zero	to high frequency
22.	Where are the caves	s of Ajanta located?		
	l) Orissa		2) Kerala	
	3) Maharashtra		4) Madhya Pradesh	1
23.	Calorie value is the			
	_	_	3) Steam fiery gas	4) Oil gas
24.	The value of $\int \frac{x}{\cos^2}$	x is equal to which	of the following?	
	1) x tan x		2) log cos x	
	3) $x \tan x + \log \cos x$	t	4) x tan x - log cos	5 X
25.	The colonial system	of the company wa	as formalized by-	
	1) Battle of Plassey		2) Battle of Buxar	
	3) Battle of Panipat		4) Battle of Wandi	wash
26.	Natural rubber is po	lymer of-		
	1) Isobutane	2) Isoprene	3) Propane	4) lsopropene
27.	For generating large	currents on D.C. ge	enerators which wind	ding is generally pre-
	ferred?			
	1) Progressive wave	winding	2) Lap winding	
	3) Retrogressive wa	we winding	4) Current depends	on design
28.	A.C. servomotor is basically a/ an			
	1) Universal motor	2) Single phase inc	duction motor	
	3) Two phase induc	tion motor	4) Three phase inde	uction motor
29.	co-efficient of veloc	city as compared to	the coefficient of dis	scharge is-
	1) Less		2) More	
	3) Equal		4) Less or more de	pending on flow

30.	The capacitance, in force current analogy, is analogous to-			
	1) Momentum	2) Velocity	3) Displacement	4) Mass
31.	signal will beco equal.	me zero when the	feedback signal and	reference signs are
	l) Input	2) Actuating	3) Feedback	4) Reference
32.	Most of the weather	phenomena take p	lace in the-	
	1) Stratosphere	2) Troposphere	3) Tropopause	4) Ionosphere
33.	Motor-generator set	for D.C. are weldi	ng has generator of-	
	1) Series type		2) Shunt type	
	3) Differentially cor	npound type	4) Level compound	l type
34.	Which of the follow consideration?	ing motors is prefer	red when quick speed	l reversal is the main
	1) Squirrel cage ind	uction motor	2) Wound rotor ind	uction motor
	3) Synchronous mot	ог	4) D.C.motor	
35.	In case of ball beari	ngs, which part is n	nade harder than othe	ers-
	I) Ball	2) Outer-race		
	3) Inner race	4) All are made eq	ually hard	
36.	36. Selectivity of the receiver can be increased by which of the following?		following?	
	1) By using more tu	ned circuit		
	2) By decreasing nu	mber of tuned circu	uit	
	3) By using loudspe	aker		
	4) By increasing gai	n of the receiver		
37.	An electronics circu	its in which differ	ent components such	as Diode. Resistor
	and Capacitor etc. a	re connected separa	ntely is called-	
	l) Chassis	2) Printed board		
	3) Integrated circuit 4) Discrete circuit			
38.	Indicated power of a	_	•	
	I) pLAN	2) 2pLAN	3) <u>pLAN</u> 2	4) 4pLAN
	where p = Mean effe	ective pressure. L =	Stroke, A = Area of	piston and N = rpm
	of engine			

39.	What are Ferrites?			
	I) Magnetic but hav	re low resistance	2) Magnetic but ha	ve high resistance
	3) Non magnetic w	ith low resistance	4) Non-magnetic w	vith high resistance
40.	The translator prog machine code line b		source code in high	level language into
	1) Assembler	2) Compiler	3) Loader	4) Interpreter
41.	National Library, th	e largest in India is	located at-	
	I) Chennai	2) Mumbai	3) Delhi	4) Kolkata
42.	Pak Strait joins whi	ch of the following	two countries-	
	I) India-Pakistan	2) India-Myanmar	3) India-Sri lanka	4) None of these
43.	Who had appointed	the first Prime Min	ister of India?	
	I) Lord Mountbatte	n	2) C.Rajagopalacha	ari
	3) President of India		4) None of these	
44.	Who had demarcate			
4-	I) McMohan	2) Lord Durand	3) Radcliffe	4) None of these
45.	• •		_	4. 750.
	1) 20%	2) 30%	3) 50%	4) 75%
46.	Which of the follow	_	_	
	I) NAND-Gate	2) OR-Gate	3) AND-Gate	4) NOT-Gate
47.	How will a red flow	er appear, if it is se		
	1) Red	2) Brown	3) White	4) Green
48.	What is the unit of	electrical energy?		
	I) Ampere	2) volt	3) Watt	4) Kilowatt-hour
49 .	A diode			
	1) Functions only in	one direction		
	2) Functions in both	the directions		
	3) Does not functio	n at all		
	4) It gets damaged.	when voltage is app	olied	
50.	What is the frequen	cy of the receiver?		
	1) 488 kHz	2) 445 kHz	3) 455 kHz	4) 456 kHz
51.	When were the Indi	an States organised	on the basis of langu	uage?
	1) 1947	2) 1950	3) 1956	4) 1952

52.	What would be the expenditure in 30 days at the rate of 50 paise per unit, if a bulb of 100 W is used five hours per day?			O paise per unit, if a
	I) Rs. 10.50	2) Rs.8.50	3) Rs.7.50	4) Rs.9.50
53.	Lever functions on	which of the follow	ing principles?	
	1) Crank shaft	2) Joining rod	3) Crank pin	4) Cross head
54.	Protein is not availa	ble in which of the	following?	
	l) Meat	2) Milk	3) Rice	4) Pulse
55.	In steam turbine the	action of steam is-		
	I) Stable		2) Dynamic	
	3) Stable and dynan	nic	4) Neither stable no	or dynamic
56.	Among the following	ng statement which	is the false?	
	l) Only minority in	purities are added i	n a junction diode	
	2) Higher temperatu	ire increases the lea	kage current of diod	e
	3) A simple zener d	iode works when co	nnected between and	ode to cathode
	4) Zener is mostly t	ised in voltage regu	lator	
57.	In resistance heating elements made of		temperature is ob	tained from heating
	I) Nickel and coppe	er	2) Nichrome	
	3) Silicon carbide		4) Silver	
58.	In higher pair, the re	elative motion is-		
	l) Purely turning	2) Purely sliding		
	3) Purely rotary	4) Combination of	sliding and turning	
59.	The least populated	Stae in India is-		
	l) Goa		2) Sikkim	
	3) Manipur		4) Arunachal Prade	esh
60.	In case of gas turbin	nes, the gaseous fue	I consumption guara	ntees are based on-
	1) High heat value		2) Low heat value	
	3) Net calorific value	ie	4) Middle heat valu	ıe
61.	In a resistive load, p	ower dissipation w	ould be proportional	to-
	I) Current	2) ————Current	3) (Current) ²	4) (Current ²)

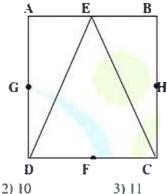
62.	An automatic toaster is a loop control system.			
	I) Open		2) Closed	
	3) Partially closed		4) None of the abo	ve
63.	A transistor draws a	base current of 100	micro ampere when	the collector current
	is 10 milli ampere,	what is value of its	'et'?	
	1) $\frac{101}{100}$	2) $\frac{100}{101}$	3)	4) 10
	100	101)	11
64.	Who of the following	ng was not the acting	g President of India?	•
	1. V.V.Giri	2) B.D.Jatti	3) Hidayatullah	4) Zakir Hussain
65.	The northern most	limit of India is-		
	1) 36°4' N latitude		2) 37°8' N latitude	
	3) 37°6′ N latitude		4) 36°12' N latitude	2
66.	When the load is	above a sy	ynchronous motor is	s found to be more
	economical.			
	1) 2 kW	2) 20 kW	3) 50 kW	4) 100 kW
67.	The first summit of	NAM was held at-		
	l) Cairo	2) Lusaka	3) Belgrade	4) New Delhi
68.	To convert moving	coil galvanometer i	into an ammeter, wh	ich of the following
	methods is used?			
	l) Small resistance	in series	2) Small resistance	in parallel
	3) High resistance i	n series	4) High resistance	in parallel
69.	Following figure sl	hows the curves of	efficiency versus co	ompression ratio for
	-	C. engines. For consta	ant volume cycle. the	curve applicable is-
	₹			
	I	_	1) A	2) B
	e e B	C	IIA	-) D
	D		3) C	4) D
	Compressi	on ratio→		
70.	The minimum value	e of the function v =	$= x^5 - 4x^4 + 5x^3 - 1$	will occur when the
	value of x is equal to		•	
	1)0	2) [3) 2	4) 3

71.	Which one of the natural regions is kno		
	1) The steppe region	2) The mediterrane	-
	3) The monsoon region	4) The equatorial re	egion
72.	When input signal in transistor amplifies	• •	
	out put is taken from emitter and collect	or, then what the cor	figuration is called?
	1) Common emitter	2) Common base	
	3) Common collector	4) None of these	
73.	Which of the following can be used to o	control the speed of	a D.C. motor?
	1) Thermistor 2) Thyristor	3) Thyratron	4) Transistor
74.	The transient response of a system is n	nainly due to-	
	1) Inertia forces 2) Internal forces	3) Stored energy	4) Friction
75.	Minority carrier in P-type semi-conduc	tor are-	
	1) Free electrons	2) Free holes	
	3) Holes and electrons both	4) Holes minus elec	ctrons
76.	6. Pulley in a belt drive acts as-		
	1) Cylindrical pair	2) Turning pair	
	3) Rolling pair	4) Sliding pair	
77.	D.C. shunt relays are made of-		
	1) Few turns of thin wire	2) Few turns of thic	ck wire
	3) Many turns of thin wire	4) Many turns of th	nick wire
78.	The movement that came to an abrupt en	nd due to the Chauri-	-chaura incident was
	the-		
	() Wahabi Movement	2) Home rule move	ement
	3) Non-cooperation movement	4) Civil disobedien	ce movement
79.	While checked with a multimeter, an op-		
	() Zero	2) Infinite	
	3) High but within toleance	4) Low but not zero	0
80.	In amplitude modulation-		
	1) Amplitude of the carrier is kept cons	tant	
	2) Change occurs in carrier frequency		
	3) Amplitude is varied according to the	instantaneous value	of modulating wave
	4) None of these		

81.	Oscillator operates on sub harmonic from	equency because-	
	1) Lower frequency gives better stabilit	У	
	2) It gives linear out put3) Less stages are used		
	4) More stages are used		
82.	Hopkinson's test on D.C. machines is co	onducted at-	
	i) No-load 2) part load	3) Full-load	4) Over load
83.	Emitter follower is also called as-		
	1) Common emitter	2) Common base	
	3) Common collector	4) SCR	
84.	The example of lower pair is-		
	1) Shaft revolving in a bearing	2) Straight line mo	tion mechanisms
	3) Automobile steering gear	4) All of the above	
85.	Which is true statement among the following	owing?	
1) Main function of the detector is to suppress the image signal		gnal	
2) Noise is very low in crystal detector			
	3) Super-regenerative is less sensitive		
	4) Diode detector is more sensitive		
86.	The first governor-General of India und	der East India Comp	any was-
	1) Cornwallis	2) Wellesley	
	3) Warren Hastings	4) Sir John Shore	
87.	The expression $\int p \ dV$ can be used for ϕ	obtaining work of-	
	l) Non-flow reversible process	2) Steady flow rev	ersible process
	3) Adiabatic irreversible process	4) Throttling proce	ess
88.	In connection with oscillator, which is	FALSE statement?	
	1) Oscillator converts d.c. into a.c.		
	2) Oscillator is that amplifier which pro	ovides its own input	
	3) All types of oscillator produce sine v	vave	
	4) In phase, feedback used in oscillator is also called positive feedback.		

89.	The index of compression n tends to reach ratio of specific heats γ when-		
	1) flow is uniform and steady		
	2) process is isentropic		
	3) process is isothermal		
	4) process is isentropic and specific heat does not change with temperature		
90.	Who of the following attended all the the	aree Round Table Conferences?	
	l) B.R. Ambedkar	2) M.M.Malaviya	
	3) Vallabhbhai Patel	4) None of the above	
91.	For which of the following substances,	the internal energy and enthalpy are the	
	functions of temperature only-		
	I) Any gas	2) Saturated steam	
	3) Water	4) Perfect gas	
92.	Frequency multiplier stage of the transr	nitter operates under-	
	l) Class C 2) Class A	3) Class AB 4) Class B	
93.	Which of the following is used in the b	last furnace as flux?	
	1) Fluorspar	2) Quartzite	
	3) Limestone	4) Ferro-manganese	
94.	An air vessel is usually provided at the	summit of a syphon in order to-	
	I) Regulate the flow	2) Increase discharge	
	3) Avoid interruption in flow	4) Increase velocity	
95.	An exciter for a turbo generator is a-		
	1) Separately excited generator	2) Shunt generator	
	3) Series generator	4) Compound generator	
96.	Which of the following instruments is a	nost accurate?	
	1) Vertical caliper	2) Manometric screw gauge	
	3) Optical projector	4) Mechanical comparator	
97.	The value of $\underset{x \iff}{\sqcup} \frac{\sin x}{x}$ is equal to-		

98. In the given figure we see a square ABCD and a triangle EDC within it. E, F. G and H are the midpoints of the four sides of the square AB, DC, AD and BC respectively. If these midpoints are joined together with straight lines e.g., E with F and G with H, then how many triangles will the figure have?



- 1)9
- 2) I

- 4) 12
- 99. Two generators A and B have 6-poles each. Generator A has wave wound armature while generator B has lap wound armature. The ratio of the induced e.m.f. in generator A and B will be
 - 1)2:3
- 2) 3:1
- 3) 3:2
- 4) 1:3
- 100. A frame-structure is nice if the number of its constituents is equal to
 - 1) 2n-3
- 2) n-1
- 3) 2n-1
- 4) n-2

ANSWERS

1-3; 2-2; 3-3; 4-2; 5-1; 6-4; 7-4; 8-4; 9-2; 10-1; 11-2; 12-4; 13-1; 14-3; 15-1; 16-1; 17-1; 18-2; 19-3; 20-1; 21-1; 22-3; 23-2; 24-3; 25-2; 26-2; 27-2; 28-3; 29-2; 30-4; 31-2; 32-2; 33-3; 34-4; 35-4; 36-4; 37-3; 38-3; 39-2; 40-2; 41-4; 42-3; 43-1; 44-3; 45-2; 46-1; 47-2; 48-4; 49-1; 50-4; 51-3; 52-3; 53-1; 54-3; 55-2; 56-1; 57-2; 58-4; 59-2; 60-3; 61-3; 62-1; 63-2; 64-4; 65-3; 66-3; 67-3; 68-2; 69-2; 70-1; 71-1; 72-1; 73-2; 74-2; 75-2; 76-1; 77-2; 78-3; 79-2; 80-3; 81-2; 82-3; 83-3; 84-2; 85-4; 86-3; 87-1; 88-3; 89-2; 90-1; 91-4; 92-1; 93-1; 94-1; 95-1; 96-3; 97-3; 98-2; 99-2; 100-1.