		Ran	5 Loco Pi chi	REVIOUS PAPER
	B	based on	Memory	0-
1.	What is the value of	of knee voltage of si	licon diode?	
	1) 0.3 V	2) 0.33 V	3) 0.7 V	4) 1.1 V
2.	•		o constitute the Cons	stitution Assembly to
	form the Indian Co			G
	1) Swaraj Party in		2) Indian National	-
•	3) Muslim League	$\Lambda 0$	4) By all parties co	\circ
3.			d 15 volt across the d be the supply volta	resistance in the a.c.
	1) 20 volt	2) 15 volt	3) 25 volt	4) 17.5 volt
4.	A transformer main	,		
<		2) Voltage	3) Frequency	4) Power
5.		factor of a pure res		
	1) One	2) Zero	3) Leading	4) Lagging
6.	Functions of N.S.D	D.L. are related to-		
	1) Bearer bonds	2) GDRs	3) Electronic share	4) Debenture
7.	There are rings are	und which of the fo	llowing 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 heatin	g	4) Dielectric heating	ng
9.	What is the S.I. Ur	nit of magnetic flux of	density?	
	1) Gauss	2) Tesla	3) Oersted	4) Weber

10.	0. Which type of oscillator is most stable in simple circuit?			
	1) Crystalline oscill	lator	2) Clapp oscillator	
	3) Colpitts oscillato	or	4) Armstrong oscil	lator
11.	Where is the headq	uarters of Geologica	al Survey of India loo	cated?
	1) Patna	2) Dehradun	3) Kolkata	4) Agra
12.	What is the proper	use of signal genera	tor?	9.•
	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	aka era?		
	1) Ashoka	2175	2) Chandragupta-I	I
	3) Kanishka	20.0	4) Harsha	
15.		diesel engine receiv	es more fuel than the	e others, then for that
	cylinder the			
	1) exhaust till be sn	-		X
		ld stick into piston g	grooves	~e~
	3) scavenging occu			
10	4) engine starts ove	-		0-
16.		sent by CW transmi		a airmal
	1) Changing the au		 2) Interrupting radii 4) Using semana 	o signal
17.	3) Using microphor		4) Using camera	
1/.	1) Tubular centrifug		ing oil using	
	3) Sparkler filter		4) Vacuum leaf filt	er
18.	The rank of the fol	lowing matrix is-	.,	
	[1 1 0]			
<	1) 0	2) 1	3) 2	4) 3
19.	Germanium possess	ses-		
	1) Two valence elec	ctrons	2) Three valence el	ectrons
	3) Four valence ele	ctrons	4) Five valence ele	ctrons

20.	Share of export from	m India is the maxi	mum to the follow	ving country-
	1) U.S.A.	2) U.K.	3) U.A.E.	4) Japan
21.	Which of the follow	wing is not a proper	rty of difference ar	nplifier?
	1) Capacitor is use	d in it	2) It is used to a	compare two signals
	3) Difference ampl	ifier yields more th	an the direct coup	le amplifier
	4) Frequency of di	fference amplifier r	emains flat from z	ero to high frequency
22.	Where are the cave	es of Ajanta located	?	
	1) Orissa		2) Kerala	
	3) Maharashtra		4) Madhya Prac	lesh
23.	Calorie value is the	e least of the follow		
	1) Coal gas	2) Producer gas	3) Steam fiery g	gas 4) Oil gas
24.	The value of $\int \frac{x}{\cos^2 x}$	$\frac{x}{2x}$ is equal to which	h of the following	?
	1) x tan x	, P	2) log cos x	
	3) x tan x + log co	s t	4) x tan x - log	cos x
25.	The colonial system	n of the company w	was formalized by-	
	1) Battle of Plasse	У	2) Battle of Buy	kar
	3) Battle of Panipa	t	4) Battle of Wa	ndiwash
26.	Natural rubber is p	olymer of-	Ý,	
	1) Isobutane	2) Isoprene	3) Propane	4) Isopropene
27.	For generating larg	e currents on D.C. §	generators which w	vinding is generally pre-
	ferred?	212	~	
	1) Progressive way	ve winding	2) Lap winding	
	3) Retrogressive w	ave winding	4) Current depe	nds on design
28.	A.C. servomotor is	basically a/ an		
	1) Universal motor	2) Single phase in	nduction motor	
<	3) Two phase indu	ction motor	4) Three phase	induction motor
29.	co-efficient of velo	ocity as compared to	o the coefficient of	f discharge is-
	1) Less		2) More	
	3) Equal		4) Less or more	depending on flow

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30.	The capacitance, in	force-current analo	gy, is analogous to-	
	1) Momentum	2) Velocity	3) Displacement	4) Mass
31.	signal will becc	ome zero when the	feedback signal and	l reference signs are
	equal.			
	1) Input	2) Actuating	3) Feedback	4) Reference
32.	Most of the weather	r phenomena take p	lace in the-	0.
	1) Stratosphere	2) Troposphere	3) Tropopause	4) Ionosphere
33.	Motor-generator se	t for D.C. are weldi	ng has generator of-	
	1) Series type		2) Shunt type	
	3) Differentially con	mpound type	4) Level compound	d type
34.		ving motors is prefer	red when quick spee	d reversal is the main
	consideration?	20.		
	1) Squirrel cage ind		2) Wound rotor inc	luction motor
	3) Synchronous mo		4) D.C.motor	
35.		ings, which part is n	nade harder than oth	iers-
	1) Ball	2) Outer-race		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	3) Inner race	4) All are made eq	ually hard	J.r
36.	Selectivity of the re	ceiver can be increa	ased by which of the	following?
	1) By using more tu	ined circuit	, Or	
	2) By decreasing nu	umber of tuned circu	iit k	
	3) By using loudspe	eaker	. 9.	
	4) By increasing ga	in of the receiver		
37.	An electronics circ	uits in which differ	ent components suc	h as Diode, Resistor
	and Capacitor etc. a	are connected separa	ately is called-	
	1) Chassis	2) Printed board		
	3) Integrated circuit	t 4) Discrete circuit		
38.	Indicated power of	a 4-stroke engine is	equal to-	
<	JN		pLAN	
	1) pLAN	2) 2pLAN	3)	4) 4pLAN
	where $p = Mean$ eff	fective pressure L =	- Stroke. A = Area of	f piston and $N = rpm$
	where $p =$ Mean effective pressure, $L =$ Stroke, $A =$ Area of piston and $N =$ rpm of engine			

39.	What are Ferrites?			
	1) Magnetic but ha	ve low resistance	2) Magnetic but ha	we high resistance
	3) Non-magnetic v	with low resistance	4) Non-magnetic v	with high resistance
40.	The translator prog machine code line	-	source code in high	level language into
	1) Assembler	2) Compiler	3) Loader	4) Interpreter
41.	National Library, th	ne largest in India is	located at-	
	1) Chennai	2) Mumbai	3) Delhi	4) Kolkata
42.	Pak Strait joins wh	ich of the following	two countries-	
	1) India-Pakistan	2) India-Myanman	r 3) India-Sri lanka	4) None of these
43.	Who had appointed	l the first Prime Min	ister of India?	
	1) Lord Mountbatte	en A	2) C.Rajagopalach	ari
	3) President of Ind	ia O	4) None of these	
44.	Who had demarcat	ed the border-line b	etween India and Pa	kistan?
	1) McMohan	2) Lord Durand	3) Radcliffe	4) None of these
45.	Approximate therm	al efficiency of petr	ol engine is-	X
<	1) 20%	2) 30%	3) 50%	4) 75%
46.	Which of the follow	wing is the universal	gate?	Q • } ·
	1) NAND-Gate	2) OR-Gate	3) AND-Gate	4) NOT-Gate
47.	How will a red flow	wer appear, if it is se	en through a green g	glass?
	1) Red	2) Brown	3) White	4) Green
48.	What is the unit of	electrical energy?	. 9	
	1) Ampere	2) volt	3) Watt	4) Kilowatt-hour
49.	A diode	JUE		
	1) Functions only i	n one direction		
	2) Functions in bot	h the directions		
	3) Does not function	on at all		
	4) It gets damaged,	when voltage is app	plied	
50.	What is the frequen	ncy of the receiver?		
	1) 488 kHz	2) 445 kHz	3) 455 kHz	4) 456 kHz
51.	When were the Ind	ian States organised	on the basis of lang	uage?
	1) 1947	2) 1950	3) 1956	4) 1952
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52.	What would be the	e expenditure in 30	days at the rate of	50 paise per unit, if a
	bulb of 100 W is u	sed five hours per c	lay?	
	1) Rs.10.50	2) Rs.8.50	3) Rs.7.50	4) Rs.9.50
53.	Lever functions on	which of the follow	wing principles?	
	1) Crank-shaft	2) Joining rod	3) Crank pin	4) Cross head
54.	Protein is not avail	able in which of the	e following?	· ? · °
	1) Meat	2) Milk	3) Rice	4) Pulse
55.	In steam turbine th	e action of steam is		
	1) Stable		2) Dynamic	
	3) Stable and dyna	mic	4) Neither stable	nor dynamic
56.	Among the follows	ing statement which	is the false?	
	1) Only minority in	mpurities are added	in a junction diode	
	2) Higher temperat	ture increases the le	akage current of dio	de
	3) A simple zener of	diode works when c	connected between a	node to cathode
	4) Zener is mostly	used in voltage reg	ulator	X
57.		• •	ng temperature is o	btained from heating
	elements made of .			Q
	1) Nickel and copp	ber	2) Nichrome	jo.
	3) Silicon carbide		4) Silver	
58.	In higher pair, the		X Y	
		2) Purely sliding		
	3) Purely rotary		of sliding and turning	
59.	1 1	a Stae in India is-	0.011.	
	1) Goa	0.0	2) Sikkim	
	3) Manipur		4) Arunachal Prac	
60.				antees are based on-
	1) High heat value		2) Low heat value	
	3) Net calorific val		4) Middle heat va	
61.	m a resistive load,	power dissipation v	would be proportiona	11 IO -
	1) Current	2) $\frac{1}{\text{Current}}$	3) (Current) ²	4) $\frac{1}{(\text{Current}^2)}$
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62.	An automatic toast	er is a loop co	ntrol system.		
	1) Open		2) Closed		
	3) Partially closed		4) None of the	above	
63.	A transistor draws	a base current of 1	00 micro ampere v	when the collector current	
	is 10 milli ampere,	what is value of i	ts 'α'?	T	
	1) $\frac{101}{100}$	2) $\frac{100}{101}$	3) 1000	4) 10	
	1) 100	101	3)	11	
64.	Who of the follow	ng was not the ac	ting President of In	ndia?	
	1. V.V.Giri	2) B.D.Jatti	3) Hidayatulla	h 4) Zakir Hussain	
65.	The northern most	limit of India is-	COL		
	1) 36°4' N latitude	112	2) 37°8' N lati	tude	
	3) 37°6' N latitude	-0-0	4) 36°12' N lat	titude	
66.		above, a	synchronous mot	tor is found to be more	
	economical.				
	1) 2 kW	2) 20 kW	3) 50 kW	4) 100 kW	
67.	The first summit of	f NAM was held a	at-		
	1) Cairo	2) Lusaka	3) Belgrade	4) New Delhi	
68.	To convert moving	g coil galvanomete	er into an ammeter	r, which of the following	
	methods is used?		\cdot		
	1) Small resistance	in series	2) Small resist	ance in parallel	
	3) High resistance	in series	4) High resista	ince in parallel	
69.				us compression ratio for	
	various cycles in I. \uparrow .	C. engines. For con	nstant volume cycle	e, the curve applicable is-	
		20.0			
	With the second		1) A	2) B	
	fffic	C			
	E D		3) C	4) D	
<	Compress	ion ratio \rightarrow			
70.	The minimum valu	e of the function	$y = x^5 - 4x^4 + 5x^3$	3 – 1 will occur when the	
	value of x is equal	to-			
	1) 0	2) 1	3) 2	4) 3	
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71.	Which one of the natural regions is kno	wn as the 'Bread Basket' of the world?
	1) The steppe region	2) The mediterranean region
	3) The monsoon region	4) The equatorial region
72.	When input signal in transistor amplifier	r is applied between base and emitter and
	out put is taken from emitter and collect	or, then what the configuration is called?
	1) Common emitter	2) Common base
	3) Common collector	4) None of these
73.	Which of the following can be used to a	control the speed of a D.C. motor?
	1) Thermistor 2) Thyristor	3) Thyratron 4) Transistor
74.	The transient response of a system is m	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 electrons
76.	Pulley in a belt drive acts as-	X
	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 thick wire
	3) Many turns of thin wire	4) Many turns of thick wire
78.	-	nd due to the Chauri-chaura incident was
	the-	
	1) Wahabi Movement	2) Home rule movement
70	3) Non-cooperation movement	4) Civil disobedience movement
79.	While checked with a multimeter, an op 1) Zero	2) Infinite
	3) High but within toleance	4) Low but not zero
80.	In amplitude modulation-	4) Low but not zero
00.	1) Amplitude of the carrier is kept const	tant
	2) Change occurs in carrier frequency	
		instantaneous value of modulating wave
	4) None of these	

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81.	Oscillator operates on sub-harmonic frequency because-		
	1) Lower frequency gives better stability		
	2) It gives linear out put		
	3) Less stages are used		
	4) More stages are used		
82.	Hopkinson's test on D.C. machines is conducted at-		
	1) No-load2) part load3) Full-load4) 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 bearing2) Straight line motion mechanisms		
	3) Automobile steering gear4) All of the above		
85.	Which is true statement among the following?		
<	1) Main function of the detector is to suppress the image signal		
	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 under East India Company was-		
	1) Cornwallis 2) Wellesley		
	3) Warren Hastings 4) Sir John Shore		
87.	The expression $\int p dV$ can be used for obtaining work of-		
	1) Non-flow reversible process2) Steady flow reversible process		
	3) Adiabatic irreversible process4) Throttling process		
88.	In connection with oscillator, which is FALSE statement?		
<	1) Oscillator converts d.c. into a.c.		
	2) Oscillator is that amplifier which provides its own input		
	3) All types of oscillator produce sine wave		
	4) In phase, feedback used in oscillator is also called positive feedback.		
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89.	The index of compression n tends to re	each ratio of specific heats v when-
	 flow is uniform and steady 	and the of specific found f when
	2) process is isentropic	×
	3) process is isothermal	
	4) process is isentropic and specific here	at does not change with temperature
90.	Who of the following attended all the t	
	1) 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-	
	1) Any gas	2) Saturated steam
	3) Water	4) Perfect gas
92.	Frequency multiplier stage of the trans	mitter operates under-
	1) Class C 2) Class A	3) Class AB 4) Class B
93.	Which of the following is used in the b	blast 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-
	1) 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	
	1) Vertical caliper	2) Manometric screw gauge
<	3) Optical projector	4) Mechanical comparator
97.	The value of Lt $x \rightarrow \infty = \frac{\sin x}{x}$ is equal to-	
	1) 1 2) -1	3) Zero4) Infinity
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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?

