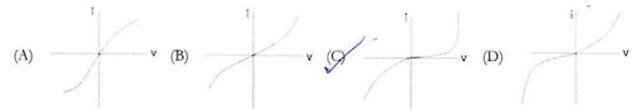




- 82. Which of these devices performs the function of both input device and output device for a computer?
 - (A) Joy Stick
- (B) Mouse
- (C) Modem
- Printer

- 83. The sum of first n odd natural numbers is:
 - (A) n²-1

- $(C) (n+1)^2$
- (D) (n-1)2
- 84. If a cube is broken into 27 equal cubes, the total surface area is increased how many times?
 - (A) 3 times
- (B) 6 times
- (C) 9 times
- (D) 27 times
- Which of the Current (i) Voltage (v) graphs represents a p-n junction diode characteristics?



- 86. Efficiency of Carnot cycle is:
 - (A) $1 \frac{Q_1}{Q_1 + Q_2}$ (B) $1 \frac{T_1}{T_2}$
- (C) $1 \frac{T_1}{T_1 + T_2}$

- 87. Lufthansa Airlines is from which country?
 - (A) USA
- (B) Malaysia
- (C) Germany
- (D) Russia
- 88. What is the ratio of angular speed of second's needle and hour's needle of a clock?
 - (A) 1:60
- (B) 60:1
- A(C) 3600:1
- (D) 720:1
- 89. In a digital circuit a counter is basically a _ which counts the number of clock pulses that have arrived at its clock input. Counters use _____ as their basic unit. Fill in the blanks respectively.
 - (A) Register, Flip-flop (B) NAND gate,
 - Register
- (C) Register, NAND
- (D) Flip-flop, Toggle
- 90. The terms Cope, Drag and Core are associated with-
 - (A) Transformers
- (B) Castings
- C) Laminar flow of liquid
- (D) Stellar evolution

- 91. French power declined in India after the battle of-
- (B) Buxar
- (C) Talikota
- (D) Wandiwash
- 92. By which constitutional amendment did the Parliament acquire the right to amend Fundamental Rights?
 - (A) 23rd
- (B) 24th
- (C) 25th
- (D) 26th
- 93. A rectangular garden has an area of 48 sq.m and perimeter of 28 m. What is the length of its diagonal?
 - (A) 8 m
- (B) 10 m
- (C) 12.5 m
- (D) 14.14 m (approx.)

- 94. Cash-reserve ratio of a commercial bank is fixed by-
 - (A) Ministry of Finance
- (B) Ministry of Commerce
- (C) RBI
- (D) Management of the commercial bank

- 95. If 12a+6b=54, what is the average of a & b?

Data insufficient

96.	A, B and C can do a piece of work in 12, 15 and 20 days respectively. How long will they take to finish the work together?						
	(A) 10 days	(B) 5 days	(C) 8 days	(D) 12 days			
97.	What is morphology	?		79. 64			
	(A) Study of insects		(B) Study of Human ev				
	(C) Study of forms an organisms	d structural features of	 (D) Study of interdependence of organisms and environment 				
98.	many 1 ton ACs wor that of the previous	ald be required for a h	ired to cool a room of siz all of size of 24' x 24' of t	he same roof height as			
		(B) 3	(C) 4	(D) 5			
99.	In the context of act	llowing:					
		1. Receptors	a. Catalysts				
		2. Enzymes	b. Neurologically active				
		3. Tranquilizers					
	(A) 1-c, 2-a, 3-b	(B) 1a, 2-c, 3-b	(C) 1-b, 2-a, 3-c	(D) 1-a, 2-b, 3-c			
100.	Several nations are following a protocol which binds them to reduce emission targets. Th						
	protocol was adopted		(0) 11 11 1 1101	(D) D : F			
	(A) Kyoto, Japan	(B) Geneva, Switzerland	(C) New York, USA	(D) Paris, France			
101.	appliance could be a	ce has a yoke, stator v -	vinding, rotor, commuta				
	(A) DC motor (B) AC induction motor	(C) AC generator *	(D) Both (B) and (C)			
102.			nteed by the Constitutio				
	(A) 7	(B) 3	(C) 5	UDY.6			
103.	Which of the following (A) n linear equations a unique solution	an 🚅 ji ji ji na ana ana di ji mishisha na ana ana ana ana ana ana ana ana an	ve (B) n linear equations v no solution	with n variables may have			
	(C) Both A & B are co	orrect ·	(D) Both A & B are wrong				
104.	If a: b = 4:3 and b	$c = 7^{\frac{1}{3}}$: 9, then a : b : 0	::?	7			
	(A) 24:21:30	(B) 12:15:21	(C) 8:6:12	(D) 28: 21: 27			
105.	Once 'X' is turned ON, even after removing the gate voltage, 'X' remains ON. 'X' is (A) Transistor (B) FET (C) Thyristor (D) MOSFET						
106.	The chemical reaction (A) Hydration	on between cement an (B) Chlorination	d water is: (C) Calcination	(D) None of these			
107		(b) Cinorniadon	(c) cincinidon	(D) I tolle of allese			
107.		etry, distance between	two points is given by :				
	$S = \sqrt{(x_1 - x_2)^2 + }$	- 1 T. D. 1	tilo pointo io given sy v				
	Statement B: Pythag	oras theorem		45			
		ng statements is corre		252 722 2			
	(A) Statement A is pro		(B) Statement B is pro	ved by Statement A			
	1000	its are independent	(D) None of these				
108.	The first Indian rails	vay train journey betw	een Bombay and Thane	was in the year-			

(C) 1818

(D) 1854

(B) 1853

(A) 1857

109.	The process of 'Ups	setting' pertains to-					
	The process of 'Ups (A) Casting	(B) Forging Sink	(C) Turning	(D) Milling			
110.	. What is the function of push rod in a diesel engine? It transfers force between -						
	(A) Cam and rocker	(B) Connecting rod an		(D) None of these			
	arm	piston	piston				
111.	Consider following	contours:					
				111			
	n n	2)	33	200 300 200			
	Match the following	g a) Hill b) Pond c) Slo	pe				
	(A) 1-b, 2-a, 3-c	(B) 1-a, 2-b, 3-c	(C) 1-a, 2-c, 3-b	(D) 1-c, 2-b, 3-a			
112.	$\sin^{-1}(\frac{1}{2}) + \tan^{-1}(1)$	= ?					
	(A) 30°	(B) 45°	40 75°	(D) 90°			
113.	Which of the follow	ing statements is true?					
11.		reases with increase in θ	Value of cosθ dec	reases with increase in θ			
		All the same world from a manner of the manner of the first filling a constraint of a constraint of		, value of tanθ decreases			
	with increase in 6		with decrease in θ				
114	In an orthogonal pr	ojection the axis of a cy	linder or a cone is den	oted by-			
	(A) A thin line			ng (D) Dashes of uniform lengths			
16	Glycerol can be rep	resented by chemical fo	ormula:				
1	(A) C ₂ H ₅ O ₂	(B) C ₃ H ₇ OH	(C) C ₃ H ₅ OH	(D) C ₃ H ₈ O ₃			
116		ing phenomenon is rela	ated to the formation of	f clouds?			
110.	(A) Condensation		(C) Sublimation	(D) Vulcanization			
117.	and the second s	d the Linux software?					
	(A) Microsoft	(B) Apple Inc	(C) IBM	(D) None of these			
118.			arks. The average score	es of boys in the class is 65			
100	The average score of girls in a class is 75 marks. The average scores of boys in the class is 65 marks. If the average of the class is 68.75 marks, what is the ratio of boys to girls in the class?						
	(A) 2:5	(B) 5:2	(C) 3:5	(D)5:3			
119.	Consider that two s	olid bodies A and B are	The second secon	THE RESERVE OF THE PARTY OF THE			
	through conduction	n. In the graph below, C	X represents the first	body and XY represents			
	the second body.						
	State True (T) or False(F).						
	The state of the s						
	1)Temperature gradient is more in A than in B						
	T2		flow is determined by I				
	3) Area under the curve represents heat dissipation rate.						
	0 x	Y CDV TE TE TE	(C) T F T	(D) F F T			
	(A) T, T, T	(B) T, T, F	(C) T, F, T	(D) F, F, T			

120	Padiation of a blac	k body, in terms of its t	emperature follows:	
120.	(A) Newton's law of cooling	(B) Plank's law	(C) Stefan's law	(D) Einstein Bose equation
121.	(A) They add capaci	banks in the context of tance to the supply so that ed in case of breakdown	capacitors are ava	torage spaces so that ilable to maintenance
	(C) They balance the transformer coil	e inductive component o s to smoothen the supply	f (D) They balance the the power factor	of failures inductive loads to improve
122.	In S.I system, unit (A) kg/cm ²	of stress is:	VO N/m²	(D) Watt
123.	Which planet has I		re dominated by carbon	-di-oxide? (D) Neptune
124.	A man drives a car	and reaches his destin	ation in 4 hours. Had he urs, 12 minutes. What di	e increased his speed by stance did the man cove (D) 210 km
125	Notice and the second	, which state was affect		- /
125.	(A) Karnataka	(B) Madhya Pradesh	(C) Gujarat	(D) Jammu & Kashmir
(J27/)	squares of the che (A) 64!	(B) 2 ⁶⁴ -1	(C) 2 ⁶³ -1	ons 5 cm x 10 cm on the
		circle of diameter 10 cn	on the Y-Z plane. Wha	it is the volume of the
	object? (A) 5000 cm ³	(B) π.5 ³	(C) $\frac{\pi.10^3}{4}$	(D) 2500 cm
128.	Strength of comm (A) 300 psi	only used concrete, for (B) 8000 psi	constructing low rise re (C) 15000 psi	sidential buildings is: (D) 25000 psi
129.		of computer is measure nstruction Per Second)	(B) MHz of clock (D) None of these	
130.	The famous queen	n Chand Bibi who fou	ght against Akbar, defer	ided the city of -
	(A) Berar	(B) Ahmad nagar	(C) Golconda	(D) Mysore
131.	Complete the seri	es logically.		
	(A) L	F CB		(D) R
132.	. The heart of the '	Microwave oven' that I	oroduces the microwave	range of radiation is
	(A) Cyclotron	(B) Oscillotron	(C) Variable frequency oscillator	(D) Magnetron

133.	Intensity of earthqua (A) Barometer scale	(B) Pyromete		(C) T	achometer scale	(D) Richter scale	
734)	Consider the following object be:	ng orthogonal	projection	ns of a	n object is and	answer what could this	
)	$\overline{}$			
	(A) Circle	(B) Sphere		(C) E	llipse	(D) Spheroid	
135.	35. Find the next number in the series. 33, 34, 32, 35, 31, 36,						
	(A) 30	(B) 37		(C) 3	8	(D) 29	
136.	Soaps are manufactu	ired by:					
	(A) Reaction of alkalie	es with glycerol		(B) R	eaction of fats w	ith soluble hydroxides	
	(C) Reaction of calciu with dilute sulphu		ım ions		eaction of dodeo nen NaOH	yl benzene with H ₂ SO ₄ and	
137.	A map mentions the The scale is in the ra		km.				
	(A) 1: 10 ³	(B) 1:10 ⁴	-	(C) T	: 10 ⁵ O ₂ & NO ₂	(D) 1:10 ⁶	
138.	Acid rain is caused l	oy:			~		
	(A) CO & CO ₂	(B) SO ₂ & O	2	(C) S	O ₂ & NO ₂	(D) NO ₂ & O ₂	
139.	Find the next number 1, 2, 6, 24, 120,		•				
	(A) 240	(B) 480		(C) 5	60	(B) 720	
140.	India's first war of In (A) 1835	ndependence (B) 1857	related to	Meen (C) 1		in: (D) 1905	
141.	Which of the followi	ng is NOT use	ed for mea	asurem	ent of tempera	ture?	
	(A) Thermocouples	(B) Thermist	ors	(e) P	yrometers	(D) All are used	
142.	The transformer equ (A) Ampere's law	(B) Coloumb		(C) E	estation of- aw of energy onservation	(D) Biot Savart's law	
143.	Match the following	:	* 1				
		1. Magne	1. Magnetic flux den		a. Tesla	1	
		2. Self in	2. Self inductance		b. Weber		
		3. Magne	etic flux		c. Henry]	
	(A) 1-b, 2-c, 3-a	(B) 1-c, 2-a,	3-b	(C) 1	-а, 2-ь, 3-с	(D) 1-a, 2-c, 3-b	
144.	Currently which 5 ye		er executi			(T) 4 eth	
	(A) 12 th	(B) 13 th		(C) 1		(D) 15 th	
145.	In a certain code, "A Good Luck" is writt					" is written as 675; "The ten as:	
	(A) 8	(B) 7		(C) 6	i	(D) 5	

	101.0000		energy	
147.		wall of the dam, then		on area of the water and e on the wall of the dam (D) h
148	The state of the s		gon having <i>n</i> vertices is	
140.	Aligie between two s	des of a regular polyg	on naving h vertices is	· Carrier of the state of the s
	(A) $\frac{360}{n}$	(B) $90 + \frac{180}{n}$	(C) $\frac{180}{9}$	(D) 180 - 360
				*
149.	Language (HL), Ma	chine Language (ML)		us levels, like High level n of the following is the COMP)?
	(V) U—HL—C	C ← ML ← Comp	(B) U ← C ← 1	ML ← Comp
	(C) U⇌C⇌HI	. ← ML ← Comp	(D) U ML	HL C C Comp
150.	An eating disorder o	f excessive weight loss	s usually due to undue	concern about body shape
	(A) Anorexia nervosa	(B) Appetitis	(C) Autotrophic disorder	(D) Autotrophic syndrome

(D) Distances

(C) Rotational kinetic

146. Tachymeter (or Tacheometer) is an instrument for measuring-

(B) Torque

(A) rpm