44.	its diagonal?					
	(A)	8 m	(B) 10 m	(C)	12.5 m	(D) 14.14 m (approx.)
45.	Bile	e is secreted by-				
	(A)	Stomach	(B) Liver	(C)	Large intestine	(D) Gall bladder
46.	Wh	ich of these is NO	T an Operating System	1?		
	(A)	Android	(B) iOS	(C)	Linux	(D) Power point
47.		Go Ring Gauge w Minimum tolerance diameter	(B) Maximum tolerance diameter			T. H. M. W.
48.	Wh	ich of the followin	g phenomenon is relate	ed to	the formation of c	louds?
	(A)	Condensation	(B) Evaporation	(C)	Sublimation	(D) Vulcanization
49.	49. A galvanometer(G) measures upto 100 mA current. It is to be converted to a voltmeter to measure upto 100 volts. What is required to be done?					
		Add 100 Ω resistan			Add 1000 Ω resistan	
			in parallel with G		Add 0.1 Ω resistance	e in parallel with G
50.	(A)	Sh-reserve ratio of : Ministry of	a commercial bank is fi (B) Ministry of	xed (CX	RBI	(D) Management of th
	(11)	Finance	Commerce	(2)	KD1	commercial bank
51.	Wh	What is the purpose of turbo charging a diesel engine?				
	(A)	Increase power of	engine by burning more	(B)	Increase the fuel inj	ection and rpm
	(C)	Increase exhaust gas temperature to (D) Increase inlet air so that engine fuel efficiency and power to weight ratio increases			_	
52.	52. Two bulbs are rated 100W, 220 V each. If these bulbs are connected in series to the mains supply, 220 V, the total power consumed by both the bulbs would be-					
	(A)	25 Watts	(B) 50 Watts	(C)	100 Watts	(D) 200 Watts
53.	53. Which of the Current (i) - Voltage (v) graphs represents a p-n junction diode characteristics?					
	(A)	v	(B) v	(C)	V	(D)
54.	54. In a building, water is to be pumped to a height of 10m at the rate of 1 litre/second. Power equirement would be approx:					
	(Ta	ake 'g' 10 m/sec <sup>2</sup> )				
	(A)	10 Watts	(B) 100 Watts	(C)	500 Watts	(D) 1 kW
55.	55. Angle between two sides of a regular polygon having n vertices is:					
	(A)	360 n	$(B) 90 + \frac{180}{n}$	(C)	180 n	(D) $180 - \frac{360}{n}$

56. A software user interface feature that allows the user to view something very similar to the end result while the document is being created is called-							
(A) Format c	reator (B)	Format fidelity	(C) WYSIWYG	(D) WYGIWYS			
	used in removi			H <sub>4</sub> , Sodium amalgam and NaBH <sub>4</sub> ?  (B) They are used in manufacturing esters			
(C) They are	reducing agents	s	(D) They are coated or	welding electrodes			
58. A person puts 1 grain of rice in the first square of a chess board. In the subsequent square he puts twice that of the previous square. How many grains would he need to put on all the squares of the chess board?							
` '	(A) $64!$ (B) $2^{64}-1$ (C) $2^{63}-1$ (D) $p(64, 2)$						
59. By what least number should 192,000 be divided so as to become a perfect cube?  (B) 5 (D) 7							
60. Match the fo	ollowing -						
	1. Nickel	a. Radiator, Wate	er cooling system	coolingsystem			
	2. Brass	b. Bearings, Gear	rs, Propellers				
	3. Bronze	c. Hard, Corrosio	n resistant and used in pla	ting on steel			
(A) 1-b, 2-a,	3-c (B)	1-a, 2-b, 3-c	(E) 1-c, 2-a, 3-b	(D) 1-a, 2-c, 3-b			
61. In a certain Good Luck'	code, "All The	e Best" is written 478. In this code	as 534; "Best of Luck" "Good" would be writt	en as:			
(A) 8	(B)	7	(C) 6	(D) 5			
62. In the conte	62. In the context of action of medicines on human body, match the following:						
	1. Receptors						
		2. Enzymes 🧲	b. Neurologically active				
		3. Tranquilizers	c. Proteins				
(A) 1-c, 2-a,	3-b (B)	1-a, 2-c, 3-b	(C) 1-b, 2-a, 3-c	(D) 1-a, 2-b, 3-c			
<ul> <li>63. El Nino effect is:         <ul> <li>(A) Development of low pressure areas in south (B) Reduction in ice caps resulting in variation in east Asian region insolation absorption</li> <li>(C) Prolonged warming in the Pacific Ocean surface area</li> <li>(D) Sustained tornados in the eastern coast of North America</li> </ul> </li> </ul>							
64. Loudness o	f noise is meas	sured in-					
(A) Richter	(B)	Tesla	(C) Decibels	(D) Hertz			
(A) Reaction (C) Reaction	5. Soaps are manufactured by:  (A) Reaction of alkalies with glycerol  (C) Reaction of calcium and magnesium ions with dilute sulphuric acid			<ul> <li>(B) Reaction of fats with soluble hydroxides</li> <li>(D) Reaction of dodecyl benzene with H<sub>2</sub>SO<sub>4</sub> and then NaOH</li> </ul>			
66. In a computer system there are softwares and languages at various levels, like High level Language (HL), Machine Language (ML), Compiler (C). Which of the following is the correct indicative representation from user (U) to the computer (COMP)?							
(A) U <del>←</del>	(A) $U \Longrightarrow HL \Longrightarrow C \Longrightarrow ML \Longrightarrow C \Longrightarrow ML \Longrightarrow HL \Longrightarrow C \Longleftrightarrow ML \Longrightarrow HL \Longrightarrow C \Longleftrightarrow ML \Longrightarrow HL \Longrightarrow C \Longrightarrow HL \Longrightarrow C$						
(C) U ⇒	C⇒HL	ML <del>Comp</del>	(D) $U \rightleftharpoons ML \rightleftharpoons $	$HL \rightleftharpoons C \rightleftharpoons Comp$			

67. Consider that two solid bodies A and B are touching each other and transmitting heat through conduction. In the graph below, OX represents the first body and XY represents the second body.							
	T4	State True (T) or False(F).					
	Тз	1)Temperature gradient is more in A than in B					
	Т2	2)The heat flow is determined by Fourier's law					
	O X	5) Area under the curve represents heat dissipation rate.					
	(A) T, T, T	(B) T, T, F	(C) T, F, T	(D) F, F, T			
68.	Which of the following logic gates is a universal gate i.e. its combinations can be used to construct the logic of any other logic gate?						
	(A) OR	(B) AND	(C) NAND	(D) NOT			
69.	"Mahabharata" ti	he epic was written by- (B) Kalidasa	(C) Tulsidasa	(D) Valmiki			
70.	By which constitu	itional amendment did i	the Parliament acquire the	e right to amend			
	Fundamental Rig	hts?	-				
	(A) 23 <sup>rd</sup>	(B) 24 <sup>th</sup>	(C) 25 <sup>th</sup>	(D) 26 <sup>th</sup>			
71.	(A) 3 times	n into 27 equal cubes, th (B) 6 times	ne total surface area is inc	reased how many times? (D) 27 times			
72.	COURT EL ES PA S	b: c = 7: 9, then $a: b:$	6127	(D) 27 times			
		(B) 12:15:21		(D) 28:21:27			
73.	English Bond, Flo	emish Bond, Dutch Bon	d pertain to-				
	(A) Masonry work	(B) Cement bonding	(C) Bonding between beams	(D) Bonding in foundation			
74.	River Damoder is	called the 'Sorrow of _					
	(A) Assam	(B) Bengal	(C) Orissa	(D) Uttar Pradesh			
75.	Which of these de computer?	vices performs the func	tion of both input device	and output device for a			
	(A) Joy Stick	(B) Mouse	(E) Modem	(D) Printer			
76.	76. A man drives a car 20 km in the North east direction and further 20 km in the South east direction. In which direction will he have to drive to come back to his starting point?						
	(X) East	(B) West	(C) North	(D) South			
77.	Sensitive low volta (A) Static charge	(B) Induction circuit	nts are protected from- (C) Lightening	(D) All of these			
78.	8. When we switch on an electric bulb or a fan in our house, the appliance starts almost immediately. The drift velocity of electrons in the wires would be close to-						
	(A) 1 mm/sec		(2) 3 x 10 <sup>8</sup> m/sec	(D) None of these			
79.	Woolen clothes ke	eep the body warm in w	inter because-				
	(A) Wool is a bad conductor of h	(B) Wool is a good eat conductor of hea		(D) Wool decreases body temperature			

80. Chemical bonding which results in formation of molecules from atoms is basically-

(B) Short range forces (C) Electrostatic force (D) Gravitational force

(A) Nuclear force

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81.	Which of the following sta (A) n linear equations with a unique solution (C) Both A & B are correct	n variables may have (	<ul><li>(B) n linear equations with n variables may have no solution</li><li>(D) Both A &amp; B are wrong</li></ul>			
82.	"Common Base" configu (A) Rectifier (B)		onfiguration of a-	(D) Inverter		
83.		$V_1I_1 = V_2I_2$ is the m Coloumb's law (		(D) Biot Savart's law		
84.			C) IBM	(D) None of these		
85.			ell and Shore? They per C) Metal turning	rtain to- (D) Hardness		
86.	Which of the following in  (A) Tolerances  (C) Surface finish	(B) M	ontained in engineering faterial composition Il of these are included i			
87.	Which of the following sta (A) Value of sinθ increases (Between 0° & 90°, value with increase in θ	with increase in θ (	<ul> <li>(B) Value of cosθ decreases with increase in θ</li> <li>(D) Between 0° &amp; 90°, value of tanθ decreases with decrease in θ</li> </ul>			
88.	Strength of commonly use (A) 300 psi (B)		tructing low rise reside C) 15000 psi	ential buildings is: (D) 25000 psi		
89.	,	0	C) 6	(D) Data insufficient		
90.	Which of the following tis the plant?	sues transports water	r and minerals from ro	oots to other parts of		
	(A) Phloem (B)	,	C) Sieve tube	(D) Xylem 2		
91.	91. Consider the following truth table in Boolean Algebra.    X   Y   A   B   C   D   Which of the four options A, B, C, D represent the function   F = xy + xy'?   F = xy + xy'?					
	(A) A (B)	В (С	C) C	(D) D		
92. A tunic fork when sounded together with another tuning fork of known frequency of 240 Hz, emits 2 beats. On loading the tuning fork of known frequency the number of beats heard are one per second. The frequency of the tuning fork is:						
				(D) 238 Hz		
93.	Based on the choice of the the amplifiers are classified (A) Class I, II, III (B) and IV	ed as:		(D) Class IA, IB, IIA and IIB		
94.	Find the next number in to 1, 2, 6, 24, 120,  (A) 240 (B)	100	C) 560	( <b>D</b> ) 720		

95.	A, B & C invest ₹ 26000, ₹ 34000 and ₹ 10000 respectively in a business. They earn a profit of ₹ 3500. B's share in the profit is:						
			(B) ₹ 1500	(e)	₹ 1700	(D) ₹ 1900	
91			on sales in rupees?				
		No change	(B) Increase by 5.75%	(C)	Decrease by 5.75%	(D) Decrease by 6.25%	
97.	An	eating disorder of	excessive weight loss u	isua	lly due to undue co	ncern about body	
-		pe is known as:	(DS Ammotitie	(C)	Autotrophic	(D) Autotrophic	
	(A)	Anorexia nervosa	(B) Appetitis	(C)	disorder	syndrome	
98,		mplete the series:					
	ab	ab b aba faab	(D) 1	10	200	(D) anab	
	' '	bbab	(B) abaa	(C)	aaaa	(D) aaab	
99.		d the value of:	003				
	(A)	0.03 + 0.003 + 0.0	(B) 3.0333	(C)	3.3333	(D) 6.0333	
100.			ir plan is under executi	on i	n India?		
200.	(A)		(B) 13 <sup>th</sup>	(C)	14 <sup>th</sup>	(D) 15 <sup>th</sup>	
101.	Wh	o authored the bo	ok "My Experiments w	vith '	Truth"?		
		Abraham Lincoln			Louis Carol	(D) M.K Gandhi	
102.		Which of the following Venn diagram represents the relationship between Human beings Educated and Teachers?					
	(A)		(B) (B)	(C)		(D)	
103.	A t	echnique of anony	mous communication	ove	a computer netwo	rk using encryption of	
			g between the nodes, i	s ca	Cabbage routing	(D) Flower routing	
		Spice routing	(B) Onion routing				
104.	of-		a frequency tuner circu	iit ti	at was conventiona	my used, would consist	
	(A)		variable capacitor in	(B) A bridge rectifier diode feeding the base of			
	(C)	parallel	ioc	transistor through variable resistance (D) A potentiometer with variable resisitance			
405		(C) A multiple coil variac (D) A potentiometer with variable resistance  The famous queen Chand Bibi who fought against Akbar, defended the city of -					
105.		Berar	(B) Ahmad nagar		) Golconda	(D) Mysore	
106.							
100.		rpm	(B) Torque		) Rotational kinetic	(D) Distances	
					energy		
107.			ng is NOT used for me				
	(A)	Thermocouples	(B) Thermistors	(C	) Pyrometers	(D) All are used	
108.			computer is measured		Sur Cara		
	(A)		ruction Per Second)	•	) MHz of clock ) None of these		
	(C)	Both (A) and (B)		(L	) I tolle of these		
109.			(B) Malaysia	(C	() Germany	(D) Russia	
	(11)	USA	( Ivialaysia	10	, octimity	(-)	