Paper-2: SCHOLASTIC APTITUDE TEST (SAT)

1.	(<i>A</i> ∩ <i>B</i> ')'=				
	(A) $A \cup B'$	(B) $A' \cup B$	(C) $A \cup B$	(D) $A \cap B$	
2.	The supplementary ang	gle of the complementar	y of angle having measu	re 23 has measure	
	(A)67	(B)90	(C)113	(D)23	
3.	The width of the class 5	55.5-60.5 is			
	(A)10	(B)5	(C)2.5	(D)7	
4.	\overline{AD} and \overline{BE} are the al	titudes of $\Delta\!ABC$. If AD	=6cm,BC=16 cm, BE =8 c	m then CA=cm.	
	(A)12	(B)18	(C)24	(D)10	
5.	If one factor of the poly	$ynomial x^3 + 4x^2 - 3x - $	18 is x + 3 , then the other	her factor is	
	(A) $x^2 + x$	(B) $x^2 + x + 6$	(C) $x^2 + x - 6$	(D) $x^2 - x + 6$	
6.	If G.C.D of two number	is 8 and their product is	384, then their L.C.M is		
	(A)24	(B)16	(C)32	(D)48	
7.	The sum of the zeros of				
	3	(B) $-\frac{3}{5}$	(C) 5 3	(D) $-\frac{5}{3}$	
	(A) 5	5	3	3	
8.	If in a two digit number, the digit at unit place is y and the digit at tens place is 7, then the number				
	(A)70 y +7	(B)y+7	(C)y+70	(D)10y+7	
9.	If the correspondence ABC \longleftrightarrow EFD is a similarity in $\triangle\!ABC$ and $\triangle\!DEF$, thenof the follows:				
	is not true.				
	(A) $BC = AC$	$(B) \stackrel{AB}{=} BC$	(C) $AB = AC$	$(D) \stackrel{BC}{=} AB$	
	DF DE	DE DF	EF DF	DF EF	
10.	If $\triangle ABC$, $m \angle B = 90$,	AB=BC. Then AB:AC=	<u></u> .		
	(A)1:3	(B)1:2	(C)1: 2	(D) 2:1	
11.	The diagonal of a squar	re is 5 2. The length of	the side of the square is_		
	(A)10	(B)5	(C)3 2	(D) 2 2	
12.	The foot of the perpen	dicular from P(-3,2) to th	e Y-axis is M. co-ordinat	es of M are	
	(A)(3, 0)	(B)(0, 2)	(3)	(D)(-3, 2)	



13.	If $\tan 5\theta$, $\tan 4\theta$ =1,then θ is				
	(A)7	(B)3	(C)10	(D)9	
14.	For right angle ΔABC ,	sin ² A+sin ² B+sin ² C=	·		
	(A)2	(B)1	(C)0	(D)-1	
15.	A chord of ??(0,5) touc	hes ??(0,3).Therefore , tl	ne length of the chord =_	$\overline{}$	
	(A)8	(B)10	(C)7	(D)6	
16.	A card is selected at rar card is not an ace is	ndom from well-shuffled	pack of 52 cards. The pr	robability that the selected	
	(A) 12 13	(B) 4 13	(c) 1 13	(D) 13 4	
17.	two balances dice are t	hrown once. The probab	oility of getting sum of nu	umbers is divisible by 5 is	
	(A) 29 36	(B) 5 36	(c) 1 6	(D) 7 36	
18.	If 3 and -3 are the	zeros of a polynomial p	(x), thenis not the	e factor of the p(x).	
	(A)x+ 3	(B)x- 3	(c) $x^2 - 3$	(D) $x^2 + 3$	
19.	Equation $\frac{2}{3}x + \frac{3}{2}y = 5$	can be expressed in he	standard form as		
	(A)2x+3y-5=0	(B)4x+9y-5=0	(C) 4x+9y+30=0	(D) 4x+9y-30=0	
20.	317/3125 represents				
	(A) A terminating decimal		(B)A non-recurring decimal		
	(C)A recurring decimal		(D)An integer		
21.	100 meter=nm				
	(A)10 ⁻¹¹	(B) 10 ¹¹	(C) 10 ⁻⁹	(D) 10 ⁹	
22.	Which is not an allotropes of carbon nanostructure?				
	(A) Fullerence	(B)Graphene	(C)Bucky-ball of born at	toms (D)Nanobuds	
23.	What is speed of light i	n glass?			
	(A)2 x 10 ⁸ ms ⁻¹	(B)2.25 x 10 ⁸ ms ⁻¹	(C)3 x 10 ⁸ ms ⁻¹	(D)1.75 x 10 ⁸ ms ⁻¹	
24.	Which equation not rep				
	$(A) \frac{n_2}{n_1} = \frac{\sin \theta_1}{\sin \theta_2}$	$(B) \frac{n_1}{n_2} = \frac{\sin \theta_2}{\sin \theta_1}$	(C) $n_1 \sin \theta_1 = n_2 \sin \theta_2$	(D) $\eta \sin \theta_2 = n_2 \sin \theta_1$	

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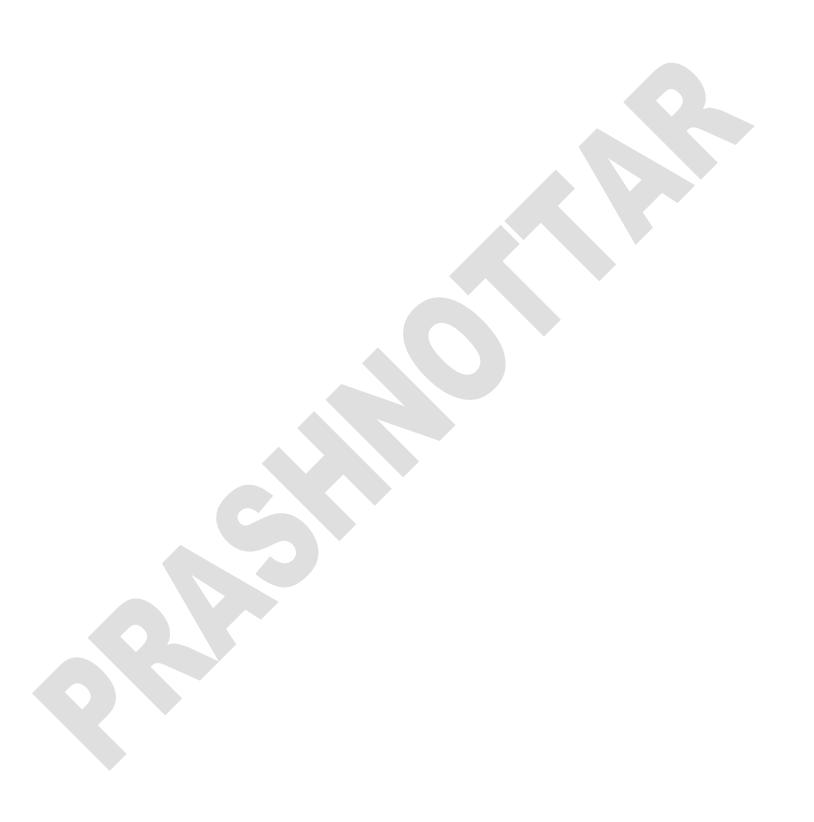
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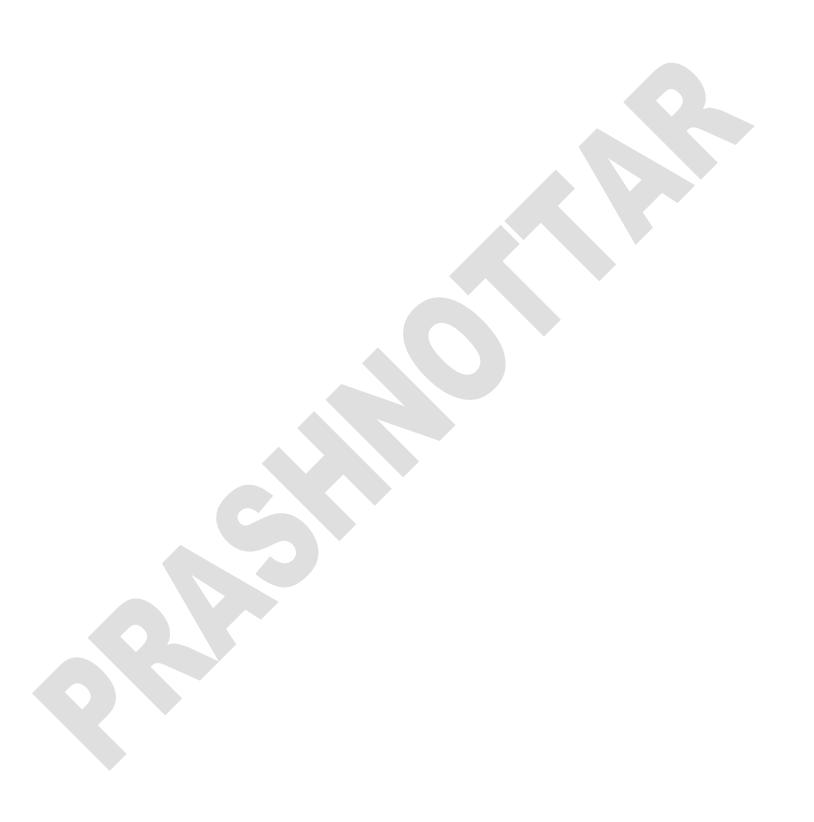
25.	National science day celebrates on					
	(A) March 28	(B) January 28	(C)April 28	(D)February 28		
26.	When a milky and cloudy layer is formed on the eye lens of old age person, they lose their vision partially or completely. This type of situation is called					
	(A)Myopia	(B)Cataract	(C)Hypermetropia	(D)Presbyopia		
27.	Determine the equivalent resistence between points x and y in the following circuit.					
	(A)5 Ω	(B)12 Ω	(C)9Ω	(D) 6Ω		
28.	Which formula is not c	orrect for R?(R=Resistan	ce)			
	$(AR = \frac{w}{I^2t}$	$(B) R = \frac{v^2}{p}$	(C) $R = I^2 t$	(D) $R = \frac{p}{I^2}$		
29.	The unit of electric pot	ential difference is				
	(A)JC	(B)J/C	(C)J	(D)C/J		
30.	Which is not correct?					
	(A) Acid+Base → Salt+Water		(B)Acid+Metal Oxide \rightarrow Salt+ Water			
	(C)Non-Metal Oxide+water → Base		(D)base+Metal → Salt+ Hydrogen+Water			
31.	Which is weak acid?					
	(A) Oxalic acid	(B)Hydrochloric acid	(C)Nitric acid	(D)Salphuric acid		
32.	What is chemical formula of milk of magnesia?					
	(A) MgNO ₃	(B)MgSO ₄	(C)Mg(OH)₃	(D)Mg(OH) ₂		
33.	How many long wire ca	an be drawn from a gram	of gold?			
	(A) 2 centimeter	(B)2 meter	(C)2 kilometer	(D)200 meter		
34.	Which alloy is used to preparation of statues?					
	(A) Bronze	(B)Brass	(C)Steal	(D)Duralumin		
35.	Which is not a step of metallurgy?					
	(A) Reduction		(B)Roasting			
	(C)Corrosion		(D)Concentration			
36.	respire through lo	ungs				
	(A) Crabs	(B)lizard	(C)Sepia	(D)Prawns		
37.	Anaerobic respiration	takes place only in	·			
	(A) Mitochondria	(B)Glands	(C)Lungs	(D)Cytoplasm		



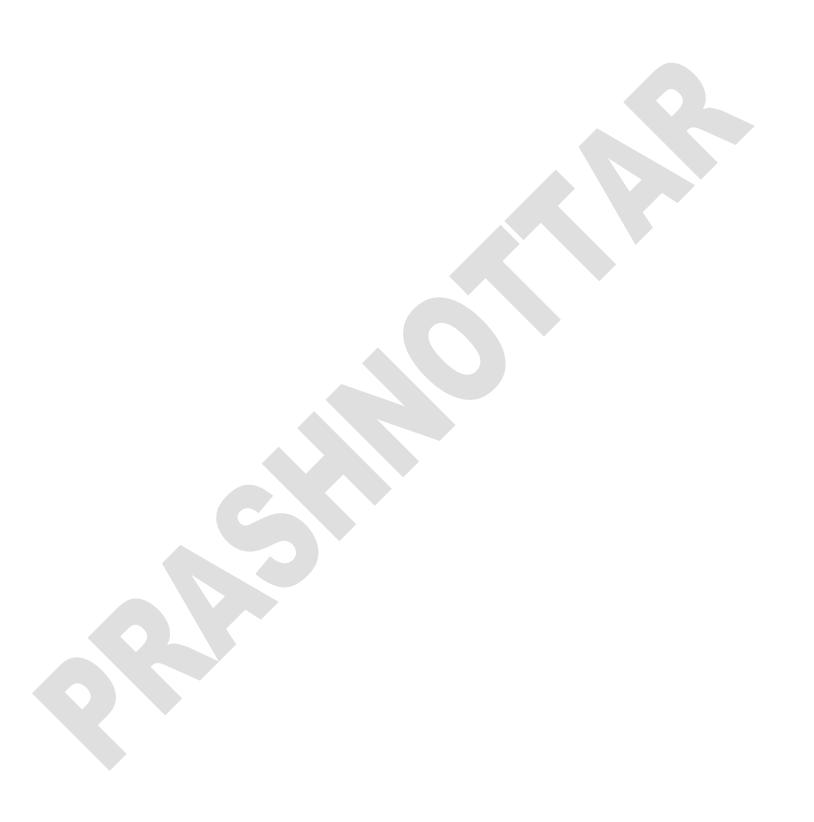
38.	The small intestine receives the secretion from						
	(A) Salivary glands		(B)Stomach and liver				
	(C)Liver and salivary gla	inds	(D)Liver and Pancreas				
39.	Where in do the Pulmo	nary veins open?					
	(A) Left auricle	(B)Left ventricle	(C)Lungs	(D)Right auricle			
40.	In the velli of ileum the	In the velli of ileum the absorption of lipids takes place through					
	(A) Lymph ducts	(B)Lymph capillaries	(C)Blood capillaries	(D)Lymph vessels			
41.	Which animals in the ar	nimals kingdom require t	the maximum amount of	energy?			
	(A) Fishes Amphibians	(B) Amphibians Reptiles	s (C)Mammals Reptiles	(D)Birds-mammals			
42.	It is found as four small	glands					
	(A) Parathyroid gland	(B)Adrenal gland	(C)Pituitary gland	(D)Thyroid gland			
43.	Whose excessive secretion causes the body to look like gorilla?						
	(A) GTH	(B)PRL	(C)GH	(D)MSH			
44.	Which wave length of harmful UV-radiations is prevented by ozone layer in entering the Earth atmosphere?						
	(A)210-300nm	(B)200-310nm	(C)120-210nm	(D)400-700nm			
45.	Which of the following groups have only non-biodegradable components?						
	1. Wood, paper, leather 2.Polythene, detergent, pvc						
	3. Plastic, detergent	4.plastic, glass, animal	dug				
	(A)1 and 4	(B)only 3	(C)2 and 3	(D)1 and 3			
46.	A car accelerates uniformly from 18 km/h to 36 m/h in 5 sec. Calculate the acceleration.						
	(A)1 ms ⁻²	(B)3.6ms ⁻²	(C)2 ms ⁻²	(D)2.6 ms ⁻²			
47.	What is the SI unit of m	omentum?					
	(A) g ms ⁻¹	(B) g m ² s ⁻¹	(C)kg ms ⁻¹	(D)kg ms ⁻²			
48.	What is mass of the moon?						
	(A)6 x 10 ²⁴ kg	(B) 7.4x 10 ²² kg	(C)6 x 10 ²² kg	(D)7.4 x 10 ²⁴ kg			
49.	A boy of mass 50 kg runs a stair case of 45 steps in 9 sec. If the height of each steps is 15 cm. Find his power. (Take g=10 ms ⁻²).						
	(A)275 w	(B)350w	(C)325 w	(C)375 w			



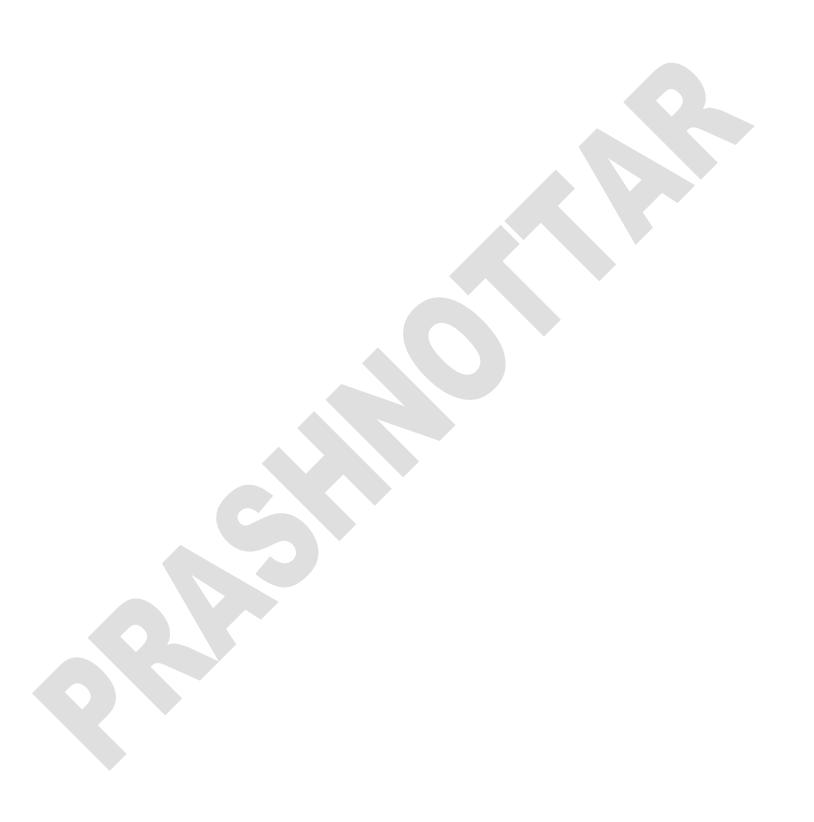
50.	When we go from solid to gaseous state, the speed of sound					
	(A) increases		(B) increases or decrea	ses		
	(C) decreases		(D) constant			
51.	What is formula of carb	oon tetrachloride?				
	(A) CCI ₄	(B) CCl ₃	(C) CCI ₂	(D) CCI		
52.	What is the maximum	number of electrons tha	t can be accommodated	in the outermost orbit?		
	(A) 2	(B) 8	(C) 3	(D) 18		
53.	The melting point of ice	e is				
	(A) 273.15 k	(B) 173.15 k	(C) 373.5 k	(D) 100 k		
54.	is not an exam	nple of Aerosol.				
	(A) Fog	(B) Clouds	(C) Mist	(D) Shaving cream		
55.	Who give the definition	n of an element?				
	(A) Rebert Boyle	(B) John Dalton	(C) Lavoisier	(D) Thomson		
56.	is also known as the 'suicide bags' of a cell.					
	(A) Mitochondria	(B) Lysosomes	(C) Plastids	(D) Golgi apparatus		
57.	is not an example of simple Tissues.					
	(A) Parenchyma	(B) Collenchyma	(C) Sclerenchyma	(D) Phloem		
58.	Which is example of th	e bryophyte?				
	(A) spirogyra	(B) ulothrix	(C) ulva	(D) marchantia		
59.	is not an exampl	e of Echinodermata.				
	(A) Octopus	(B) Sea star	(C) Echinus	(D) Antedon		
60.	Which is an example of chronic diseases?					
	(A) Common cold	(B) Asthama	(C) Flu	(D) Pnumonia		
61.	Who discovered the 'Cape of Good Hope'?					
	(A) Vasco-da-Gama	(B) Bartholomew Diaz	(C) Columbus	(D) Prince Henry		
62.	Who becomes the first Governor General of India?					
	(A) Cornwallis	(B) Wellesley	(C) Warren Hastings	(D) Sir John Shore		
63.	There are how many commissions were formed in Paris "Peace Process"?					
	(A) 48	(B) 58	(C) 68	(D) 79		



64.	Who was the Pioneer of armed revolution in Gujarat?					
	(A) Aurobindo Ghosh		(B) Baarindrakumar Ghosh			
	(C) Bal Gangadhar Tilak		(D) Mahatma Gandhi			
65.	One lakh mill workers of many days?	f 75 cotton mill industri	es in Ahmadabad went on peaceful strike for how			
	(A) 35 days	(B) 95 days	(C) 105 days	(D) 2010 days		
66.	In which year union sur	nmit was held at Kuala L	umpur?			
	(A) 2001	(B) 2003	(C) 2004	(D) 2009		
67.	IN the year 1971, Bangl part of which country?	adesh becomes an indep	pendent and sovereign c	ountry as earlier it was the		
	(A) India	(B) Afghanistan	(C) China	(D) Pakistan		
68.	Who was appointed as	Who was appointed as the chairman of state reorganization commission by Jawaharlal Nehru in 1953?				
	(A) Mr. Hridaynath Kunzru		(B) Mr. K.M. Panikkar			
	(C) Jastice Fazal Ali		(D) Dr. Sarvapalli Radhakrishnan			
69.	Which word was insert	Which word was inserted in the constitution by 42 nd Amendment 1976?				
	(A) Social	(B) Political	(C) Sovereign	(D) Secular		
70.	Who said this "To rule the regime there principles are the foundation."					
	(A) Mahatma Gandhi	(B) Sardar patel	(C) Dr. B. K. Ambedkar	(D) Dr. Rajendra Prasad		
71.	If any member of the Loksabha remains absent for a continuous period of how many days without informing the speaker then his seat is declared vacant?					
	(A) 60	(B) 70	(C) 80	(D) 105		
72.	The Judge who handles	the criminal cases is cal	led?			
	(A) District Judge	(B) Municif Magistrate	(C) Sessions Judge	(D) Supreme Court Judge		
73.	In which sea Lakshadwo	·	(0) 5	(D) 11 (D)		
	(A) Bay of Bengal	(B) Arabian Sea	(C) Red Sea	(D) Mediterranean Sea		
74.	•	,	nerals are used directly of	•		
	(A) 100 types	(B) 200 types	(C) 300 types	(D) 400 types		
75.	Which island in Brahmaputra is the largest riverine Island in the world?					
	(A) Drivar		(B) Barren Island			
	(C) Great Nicobar Island		(D) Mazuli (Majuli)			



76.	Where is the Miradatar fair held in the Rajab Month 16 to 22 nd ?					
	(A) Girnar	(B) Bhavnagar	(C) Kwant	(D) Unava		
77.	How many types of tur	es have been described	by Pandit Ahobale?			
	(A) 108	(B) 29	(C) 101	(D) 19		
78.	Gujarati Poetry known	as Garba and Garbi are o	chiefly associated with w	hich types of Bhakti?		
	(A) Ram Bhakti	(B) Hanuman Bhakti	(C) Meera Bhakti	(D) Krishna Bhakti		
79.	Dholka is a place betwe	een which two rivers?				
	(A) Narmada and Tapi		(B) Sabarmati and Narmada			
	(C) Bhogavo and Sabar	mati	(D) Sabarmati and Mah	i		
80.	What was built in Lothal to facilitate the Ships?					
	(A) Hall	(B) Dockyard	(C) Pillar	(D) Grill		
81.	In which language the earlier Buddhist literature was written?					
	(A) Hindi	(B) Sanskrit	(C) Magadhi	(D) Pali		
82.	The ruler of vallabhi belonged to which Dynasty?					
	(A) Maitrak Dynasty	(B) Vijay Ngar Dynasty	(C) Mughal Dynasty	(D) Vansh Dynasty		
83.	Who was written the book 'Bij Ganit'?					
	(A) Shankaracharya	(B) Bhaskaracharya	(C) Vatsayayan	(D) Maharshi Patanjali		
84.	Hindu caves are built during the reign of which dynesty?					
	(A) Ashoka Dynasty	(B) Maurya Dynasty	(C) Kunala Dynasty	(D) Rashtrakuta Dynasty		
85.	How much percentage of the total land of India occupies Red Soil?					
	(A) 19%	(B) 29%	(C) 39%	(D) 40%		
86.	Leopard belongs to which family?					
	(A) Lion	(B) Tiger	(C) Dog	(D) Cat		
87.	Watermelon and Cucumber are of which types of agriculture crops in India?					
	(A) Kharif Crops	(B) Zaid Crops	(C) Rabi Crops	(D) Plantation Crops		
88.	Which are the main so	urce of surface water?				
	(A) Seas	(B) Lakes	(C) Rivers	(D) Ponds		
89.	In which country the B	auxite was found first tin	ne in 1921?			
	(A) India	(B) America	(C) China	(D) France		



90.	20% rich people of the country share 40% of National income and the Poorest 20% people share he much percentage of National income?					
	(A) 30%	(B) 20%	(C) 10%	(D) 5%		
91.	In which year ht Worl	d Trade Organization wa	s established?			
	(A) 1950	(B) 1985	(C) 1995	(D) 2015		
92.	Where was the first ti	me "Earth conference" c	organized in 1972?			
	(A) Stockholm in Swed	den	(B) Imphal in India			
	(C) Geneva in Switzer	land	(D) America in Washin	gton		
93.	In which year Air Poll	In which year Air Pollution Act was passed in India?				
	(A) 1961	(B) 1971	(C) 1981	(D) 1999		
94.	Concept of poverty was first propounded by director of which organization?					
	(A) WTO	(B) WHO	(C) ECOSCO	(D) UNICEF		
95.	According to census counting of 2011, how many educated unemployed were in India?					
	(A) 54 Million	(B) 79 Million	(C) 81 Million	(D) 84 Million		
96.	Till 2015 there were h	now many employment e	exchange centers were in	our country?		
	(A) 908	(B) 947	(C) 1010	(D) 1189		
97.	According to early hyp	pothesis 'Varna System' v	was based on how many	occupations?		
	(A) 10	(B) 6	(C) 4	(D) 2		
98.	In which article of Ind	ia Constitution Schedule	tribes are included?			
	(A) Article-341	(B) Article-342	(C) Article-29	(D) Article-15		
99.	According to which Article, untouchability is totally eradicated and its practice in any form is prohibited?					
	(A) Article - 17	(B) Article - 29(a)	(C) Article - 341	(D) Article - 25		
100.	After which year Terrorism has increased in Kashmir?					
	(A) 1962	(B) 1965	(C) 1988	(D) 1999		
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