=

SCHOLASTIC APTITUDE TEST (SAT) Gujarat-2017

1.		4,5,6}, U = {1,2,3,4,5,6,7		
	(A) φ	(B) {1,2,3,4,5,6}		(D) {3,4,5,6}
2.	An equivalent express	ion of $\frac{5}{7+4\sqrt{5}}$ after rat	tionalizing the denominat	tor is:
		(B) $\frac{20\sqrt{5}-35}{129}$		
3.	If $x - 2$ is a factor of 3 (A) 2	$x^4 - 2x^3 + 7x^2 - 21x + k$ th (B) 9	nen the value of K is (C) 18	(D) -18
4.	Line $x + y = 2$ passes t (A) 1 st and 3 rd both	through the quadra (B) 2 nd and 3 rd both	nts. (C) 3 rd and 4 th both	(D) 1 st , 2 nd , 4 th all
5.	If the measure of the a angle is- (A) 30°	angle of triangle ABC are (B) 60°	in proportion $1 : 2 : 3$, th (C) 90°	en the measure of the smallest (D) 120°
6.		al triangle, AB = 6. The	points P, Q and R are	midpoint of \overline{AB} , \overline{BC} and \overline{CA}
	(A) 18	(B) 15	(C) 9	(D) 12
7.		\overline{M} be the altitude con ase \overline{AB} , If AB = 10cm, (B) 10cm		se \overline{BC} and \overline{CN} the altitude then BC = ?. (D) 5cm
8.	A circle passes throu	igh the vertices of an	equilateral triangle AB	C. The measure of an angle
		\overline{AB} at the centre of the (B) 60		(D) 120
9.			rtion 3:4:5, then the a	rea of triangle is sq. units,
	where perimeter of the (A) 64	e triangle is 144. (B) 364	(C) 564	(D) 864
10.	The ratio of radii of two curved surface area is		ratio of their saint heigh	t is 9:4. Then the ratio of their
	(A) 3 : 2	(B) 1 : 2	(C) 1 : 3	(D) 2 : 3
11.	The probability of getti	ng both heads, when two	balanced coins are toss	sed once is :
	(A) $\frac{1}{2}$	(B) $\frac{1}{3}$	(C) $\frac{1}{4}$	(D) $\frac{1}{5}$
12.	The characteristic of th (A) 3	ne number log 0.003942 (B) 2	= (C) -3	(D) -2
13.	A number having digit (A) 1	2 at unit place then its cu (B) 2	ube has digit at its u (C) 8	unit place. (D) 4
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14.	3 year ago the sum of ag father and his son will be		on was 40 years. After 2	years , the sum of ages of the
		B) 46	(C) 50	(D) 60
15.			and triangle DEF is sim	ilarity. If AB + BC = 10 and DE
	+ EF = 12 and AC = 6, th (A) 6	en DF = B) 5	(C) 7.2	(D) 16
16.	In $\triangle ABC$, If $\frac{AB}{1} = \frac{AC}{2}$	$-\frac{BC}{2}$ then $m/C-2$		
10.		-		(D) 45
	.,	B) 30	(C) 60	(D) 45
17.				then sin $3\theta - \sqrt{3} \tan \theta = ?$
	(A) 1 (B) 0	(C) -1	(D) $1 - \sqrt{3}$
18.	If the angles of elevation of the tower, have measu			from its foot and the same side
			-	\overline{a}
	(A) $\sqrt{a+b}$ (B) \sqrt{ab}	(C) $\sqrt{a-b}$	(D) $\sqrt{\frac{a}{b}}$
19.	A chord of Θ (0,5) touche (A) 8 (es Θ (0,3). Therefore B) 10	the length of the chord = (C) 7	= (D) 6
20.	The median class o the fr	equency distribution g	iven below is:	
	Class 0.10	10-20 20-30	30-40 40-50	
	Class 0-10 Frequency 7	10-20 20-30 15 13	30-40 40-50 17 10	
				(D) 40 - 00
	(A) 40 – 50 (B) 30 – 40	(C) 20 – 30	(D) 10 – 20
21.	Thermal conductivity of s	tandard SWNT along i	ts length is $\frac{watt}{mk}$	
	(A) 3500 (B) 385	<i>m.k.</i> (C) 35000	(D) 35
22.			vex lenses of 5cm and 2	0cm focal length, then which of
	them will be object lens a (A) Object lens with 20cm		piece with 5cm focal len	gth
	(B) Object lens with 5cm(C) both should have 20c		iece with 20cm focal leng	gth
	(D) both should have 5cn			
23.	The focal length of an eye			
		B) Retina	(C) ciliary muscles	(D) cornea
24.	their equivalent resistanc		ving 5Ω resistance eacl	h is connected in parallel, then
	$(A) \frac{1}{5}\Omega \qquad ($	B) 1Ω	(C) 5Ω	(D) 25Ω
25.			1 minute through one co	onducting wire. How much total
	electric charge will pass t (A) 2C (hrough this wire? B) 30C	(C) 60C	(D) 120C
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26.	At what distance shou object by a convex lens (A) At focus (C) At centre of curvatu	s? (B) Be	to obtain its real, invert tween focus and centre o tween optical centre and	
27.	Velocity of a vehicle ind	crease from $5\frac{m}{s}$ to $15\frac{m}{s}$		e magnitude of acceleration?
	(A) $4\frac{m}{s^2}$	(B) $4\frac{m}{s}$	(C) $2\frac{m}{s}$	(D) $2\frac{m}{s^2}$
28.	What is the focal length (A) -10cm	n of a convex lens having (B) -20cm	g power + 5.0 D? (C) +10cm	(D) +20cm
29.	1 Newton = dyne (A) 10 ³	(B) 10 ⁴	(C) 10 ⁵	(D) 10 ⁶
30.	The increase in velocity (A) 9.8 m/s ²	y of a freely falling body i (B) 9.8 m/s	in one second is: (C) -9.8 m/s ²	(D) -9.8m/s
31.	potential energy be equ	ual?		eight will its kinetic energy and
32.		(B) 20m o which frequency is ultr		(D) 5m
33.	(A) 30Hz	(B) 30Hz	(C) 3000Hz	(D) 30,000Hz ne south direction. What is the
55.	(A) 17km		(C) 7km	(D) zero
34.	How many Electrons a (A) 17	re there in chloride ion? (B 18	(C) 16	(D) 8
35.	Which Scientist gave th (A) Lewis (C) Dalton	ne rule of octet?	(B) Rayleigh and Rams (D) Dobereiner	sey
36.	What is the chemical n (A) Calcium Oxide (C) Calcium hydroxide	ame of quick lime?	(B) Calcium Carbonate (D) Carbon dioxide	
37.	Which rays are used to (A) Laser	o diagnose cancer of eso (B) Cathod	phagus? (C) X-Ray	(D) r –Ray
38.	25°C = K. (A) 273	(B) 248	(C) 298	(D) -298
39.	Which of the following (A) Solution of common (C) Lemon Juice	shows the Tyndall effect n salt	? (B) Milk (D) Solution of copper	sulphate
40.	The PH-Value of bite o (A) 7	f honey-base is (B) More than 7	(C) Less than 7	(D) of any value

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41.	To prepare 100 ml, 2M, N (A) 40gm (l	laOH solution, gra B) 8gm	am of NaOH will be requ (C) 16gm	iired. (D) 24gm
42.	What is the ratio of iron, c (A) 7:2:1	chromium and nickel in B) 7:1:2	stainless steel? (C) 7:3:1	(D) 1:2:7
43.	Which metal is mixed with (A) Platinum (I	n gold to prepare its orr B) Nickel	aments? (C) Copper or Silver	(D) Zinc
44.	The full form of PABA is: (A) Para Amino Boric Acio (C) Para Amino Benzoic A		(B) Pttasium Amino Bas (D) Para Amino Benzoi	
45.	Where ammonia is not us (A) Nylon fibers (I	ed? B) Fertilizers	(C) Explosives	(D) Welding
46.	What is the chemical form (A) H_2SO_4 (I	hula of oleum? B) H_2SO_3	(C) H ₂ S ₂ O ₇	(D) H ₂ S ₂ O ₃
47.	Give the name of scientis (A) Robert Brown (I	t DNA molecules. B) Robert Hook	(C) Leuvan Hook	(D) Watson and crick
18 .	Which of the plant tissue (A) Collenchyma	shows the pectin depos B) Parenchyma	sition on cell wall? (C) Sclerenchyma	(D) Chloren Chyma
19.	Which disease is spread t (A) Dengue (I	through influenza virus B) Chickengunya	H ₁ N ₁ ? (C) AIDS	(D) Swine-flue
50.	Binomial nomenclature wa (A) Robert whittaker (I	as given by the scientis B) Carolus Linnaeus	st: (C) Carl Woese	(D) Ernst Haeckal
51.	Which special structures (A) Air Sac	are connected with wal B) Diapheragm	l of the lungs in class Av (C) Spongy Bones	vers? (D) Booklungs
52.	Identify the protochordata (A) Shark	Animals. B) Frog	(C) Balanoglossue	(D) Rohu
53.	Which is the improved hy (A) Sona	brid variety of Wheat? B) Sonalika	(C) PS-16	(D) Paras
54.	Which of the following is r (A) Carnivores (I	not consumer? B) Herbivores	(C) Autotrophs	(D) Omnivores
55.	What is the range of wave (A) 132 to 200nm (I	elength of U.V. rays? B) 310 to 400nm	(C) 310 to 200nm	(D) 300 to 200nm
56.	Which of the following gla (A) Salivary gland (I	nd acts as an endocrin B) Pancreas gland	e gland as well as exoci (C) Pituitary gland	rine gland? (D) Parathyroid gland
57.	By which cell the process (A) Epidermal cell (I	of opening and closing B) Guard Cell	of stomata is controllec (C) Accessory cell	l? (D) Leaf Cell
58.	What is the weight of the (A) 1350gm (A)	brain of an adult humai B) 1.350gm	n? (C) 1530gm	(D) 3150gm
59.	How many upper chambe (A) Four (I	B) Three	(C) Two	(D) One
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60.	In which book endangered p (A) Endangered species boo (C) Red data book	k (B)	oublished? Green data book Yellow data book				
61.	"Kanchenjungha" peak is situated in state of India.						
	(A) Arunachal Pradesh	(B) Asam	(C) Sikkim	(D) Uttaranchal			
62.	By which name the combined	d flow of river the Ganga	and the Brahmputra is Kno	wn ?			
	(A) Doab	(B) Bangar	(C) Meghna	(D) Tarai			
63.	Which area in Jammu and K	ashmir is an area of sca	nty rainfall ?				
	(A) Leh	(B) Ladakh	(C) Jammu	(D) Kashmir			
64.	Distance between India and	Europe was reduced du	e to canal.				
	(A) Suez	(B) Panama	(C) Agra	(D) Grand			
65.	Which river does not meet to	Bay of Bengal ?					
	(A) Krishna	(B) Kaveri	(C) Maha	(D) Narmada			
66.	What is prepared out of the I	iquid of Child ?					
	(A) Catechu	(B) Turpentine	(C) Lac	(D) Gam			
67.	Which soil contains more con	mbination of iron and Alu	ıminum ?				
	(A) Red	(B) Laterite	(C) Desert	(D) Alluvial			
68.	Where are the flying squirrels	s seen ?					
	(A) Greater Rann of Kutchch	ו	(B) At their altitude an Him	alaya			
	(C) Marshy land		(D) In western Ghats Fore	sts			
69.	Which class of Animals are o	lesert cat Ghudkhar and	bear in Gujarat ?				
	(A) Extinct		(B) Endangered				
	(C) on the verge of extinction)	(D) Adversely (Vulnerable)	affected			
70.	On which river lies the Naga	rjunasagar project?					
	(A) Godavari	(B) Krishna	(C) Tungbhadra	(D) Kaveri			
71.	For which crop, is Kanam reg	gion of Bharuch famous	?				
	(A) Tobacco	(B) Wheat	(C) Paddy	(D) Cotton			

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		NATIONAL TALENT	SEARCH EXAMINATION-201	6-17, GUJAR AT 06-11-2016
72.			m products from farmers a	-
	(A) GROFED	(B) GUJCOMASOL	(C) NDDB	(D) DARE
73.	Which soil have been der	ived from the Deccan Tra	p ?	
	(A) Black Soil	(B) Red Soil	(C) Alluvial Soil	(D) Laterite Soil
74.	In which state was Chipko	o movement' occurred ?		
	(A) Bihar	(B) Gujarat	(C) Punjab	(D) Uttaranchal
75.	Which day is celebrated a	as " World biodiversity Day	v" ?	
	(A) 21-March	(B) 5-June	(C) 29-December	(D) 4-October
76.	How many countries had			
	(A) 23	(B) 32	(C) 20	(D) 19
77.	When was Jallianwala Ba	ab Massacre bappended	2	
	(A) 1919	(B) 1819	(C) 1920	(D) 1820
			(0) 1320	
78.	When did Dandi March st	art ?		
	(A) 12 th April, 1930		(B) 12 th March 1931	
	(C) 12 th March, 1930		(D) 12 th April, 1931	
79.	England and America est	ablished military organiza	tion is known as	
	(A) NATO	(B) SEATO	(C) CENTO	(D) SWATO
80.	In 1971 with which countr	y India made treaty?		
	(A) China	(B) Pakistan	(C) Russia	(D) America
81.	Who was the promoter of	non – aligned movement	from India ?	
	(A) Lalbhadur Shashtri		(B) Dr. Radhakrishnan	
	(C) Pandit Jawaharlal Nel	hru	(D) Shrimati Indira Gan	dhi
82.	Which state is related to h	Kathak Dance ?		
	(A) Asam	(B) Kerala	(C) Uttar Pradesh	(D) Orissa
83.	The work by Amir Khusro	is		
	(A) Padmawat		(B) Ashikan	
	(C) Raghuvansha		(D) Swapnavasanhattar	m
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84.	Who founded the city of F	atehpur sikri?		
	(A) Babar	(B) Akbar	(C) Shahjahan	(D) Humayu
85.	Which Mughal emperor's	period is known as golde	en period of Indian archited	cture ?
	(A) Shah Jahan	(B) Babar	(C) Akbar	(D) Humayu
86.	Which is the world's large	st epic ?		
	(A) Ramayana	(B) Ettutokai	(C) Patthuppattu	(D) Mahabharat
87.	In which literature a collect	tion of dialogues betwee	en Buddha and his disciple	es is given ?
	(A) Sukta Pitaka	(B) Vinay Pitika	(C) Abhidhamma Pitik	a (D) Milind Pahno
88.	Give the name of race know	own as creator of Mohen	-jo-Daro Culture.	
	(A) Australoid (Nishad Pe	eople)	(B) Dravidian	
	(C) Aryans		(D) Negroid (Habsi Pe	eople)
~~				
89.		head, flat nose, short hei		features of the tribe called
	(A) The Dravidians		(B) The Armenoids	
	(C) The Mongoloids		(D) The Autroloids	
90.	German poet Goethe was	s so much impressed by	reading which drama tha	t he put it on his head and
	danced with joy?			
	(A) Malvikagnimitram		(B) Vikramovarshiyam	1
	(C) Abhignam Shankuntal	am	(D) Mahavir Charitam	
91.	Who can give the casting	vote in case of a tie for a	any bill?	
	(A) Vice Chairman	(B) Vice President	(C) Chairman (Speake	er) (D) President
92.	Which one right is not incl	uded in fundamental righ	nts in our constitution?	
	(A) Right of Equality		(B) Insulting of womer	n by men
	(C) Right to freedom		(D) Right against expl	oitation
93.	How many parentage ha	ve been provided reser	vation for women entire i	nation including Gujarat in
	local self – government or	ganization.		
	(A) 43 %	(B) 23 %	(C) 53 %	(D) 33 %
94.	Gujarat has implemented	scheme such as	_ bond to promote women	education.
	(A) Mahila	(B) Saraswati	(C) Vidyalaxmi	(D) Narmada
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05	Assessives	0001			
95.	_	5 2001 census, ti		omen per thousand men in India	
	(A) 933		(B) 927	(C) 930	(D) 941
96.	India is	Country.			
	(A) Backwa	ırd	(B) Developed	(C) Developing	(D) Very poor
97.	Which count	try is not develor	bed from following?		
	(A) U.S.A	, ,	(B) Japan	(C) Nepal	(D) France
98.	Which activi	ity cannot be clas	ssified under service	e sector ?	
50.	(A) Busines	-		(B) Education and Health	
	. ,				
	(C) Gas and	Electricity		(D) Cattle rearing	
99.	The policy o	f globalization is	associated with		
	(A) Local tra	ade	(B) Foreign trade	(C) Regional trade	(D) All of these
100.	In which yea	ar, government o	f India passes air po	ollution control act in India?	
	(A) 1998	(B) 1981	(C) 1995	(D) 2002	
				. /	

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