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SSC GT TEST - 28 / 2021

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ADITYA COLLEGE OF COMPETITIVE EXAMS

Santhinagar, KAKINADA, Ph : 0884 2340236.

SSC MODEL

No. of Questions : 100 (1 - 100)

1.	Where is 'Thumba Equatorial Rocket L	unching Station' situated?								
	1. Andhra Pradesh 2. Kerala	3. Odisha 4. Karnataka								
2.	Which one of the following elements of	urs most abundantly in our universe?								
	1. Hydrogen 2. Nitroger	3. Helium 4. Oxygen								
3.	Fog is an example of									
	1. Liquid dispersed in gas.	2. Gas dispersed in gas.								
	3. Solid dispersed in gas	4. Solid dispersed in liquid								
4.	Which of the following pairs is incorrect									
	1. Roentgen: X-Ray	2. Newton: Law of Gravitation								
	3. Faraday: Diffusion of gases	4. Pasteur: Bacteriology								
5.	The speed of a CPU is measured in which	it?								
	1. Hertz (Hz) 2. Megahe	z 3. Gigyabtyes 4. Byte								
6.	Which of the following hormones is a s	eroid?								
	1. Estrogen 2. Glucago	3. Insulin 4. Oxytocin								
7.	Hepatitis is a general term for a diseas	that is caused by								
	1. Viruses 2. Bacteria	3. Parasites 4. All the above								
8.	Select the correct match of the disease	nd its affected part.								
	1. Caries - Eves	2. Ring worm - Brain and Spinal cord								
	3. Meningitis - Teeth	4. Pneumonia - Lungs								
9.	In which organ of the human body are	e lymphocyte cells formed?								
	1. Liver 2. Bone M	row 3. Pancreas 4. Spleen								
10.	The undigested food stored in the liver	the form of carbohydrate is called								
	1. Pulp 2. Glucose	3. Glycogen 4. Carbohydrate								
11.	The directional movement of a plant part	in response to the touch of an object is known by which of the following term?								
	1. Phototropism 2. Geotrop	m 3. Thigmotropism 4. Hydrotropism								
12.	While catching a ball in the game of cri	ket, a player pulls down his hands to lower which of the following entity?								
	1. Force 2. Moment	m 3. Impulse 4. Catching Time								
13.	When new plants are obtained from the	arts of old plants, without the help of any reproductive organs, it is known by which								
	of the following term?									
	1. Vegetative propagation 2. Spore to	mation 3. Fragmentation 4. Multiple Fission								
14.	Elements that are malleable and ductile	and are good conductors of electricity are called?								
	1. Non-metals 2. Metals	3. Metalloids 4. lons								
15.	In the galvanic cell, which of the followi	g process take place?								
	1. Transformation of the electrical energy	into the chemical energy								
	2. Transformation of the chemical energy	r into the electrical energy								
	3. Transformation of light energy into the electrical energy									
	4. Transformation of electrical energy in	the light energy								
16.	When a bottle of scent is kept open in a behind it?	onner of a room its odour is felt in all parts of the room. Which phenomenon works								
	1. Evaporation 2. Vaporiza	on 3. Diffusion 4. Sublimation								
17.	Consider the following statements rega	ding Mirage.								
	I. It is an optical phenomenon that create medium	the illusion of water and results from the refraction of light through a non-uniform								
	II. It is happen due to the refraction of lig	ıt.								
	Which is/are correct statement (s) is/are	correct?								
	1. Only I 2. Only II	3. Both I & II 4. None of the above								
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18.	"Itai-Itai" disease is caused by whi	ch metal?		
	1. Nickel 2. Ca	dmium	3. Lead	4. Silicon
19.	Electromagnetism in materials is du	ue to which of th	e following factor?	
	1. Electrons at rest		2. Circular motion of ele	ctrons
	3. Protons at rest		4. All neutrons at rest	
20.	If the velocity time graph of a partic	le is represented	by y = mt + c then the part	rticle is moving with
	1. Constant Speed 2. Cor	nstant Velocity	3. Constant Acceleration	4. Varying Acceleration
21.	In the human body, the blood enter	s the aorta of the	e circulatory system from th	he
	1. Left atrium 2. Left	Ventricle	3. Right atrium	4. Right ventricle
22.	The term 'Isoneph' indicates the lin	nes of equal		
	1. Cloudiness 2. Sal	inity	3. Rainfall	4. Pressure
23.	Aqua regia is a 1 : 3 mixture by volu	ume of		
	1. Nitric acid and Hydrochloric acid		2. Hydrochloric acid and	Nitric acid
	3. Nitric acid and Sulphuric acid		4. Sulphuric acid and Ni	tric acid
24.	Aspirin is chemically known by whi	ch of the followin	ig?	
	1. Methyl salicylate 2. Hyd	droxysalicylate	3. Acetylsalicyclic acid	4. Alkylsalicylic acid
25.	Vinegar made by fermentation from	n cane sugar con	tains which type of acid?	
	1. Palmitic acid 2. Lac	tic acid	3. Citric acid	4. Acetic acid
26.	Cement is formed by strongly heati	ng a mixture of		
	1. Limestone and Graphite	0	2. Limestone and Clay	
	3. Chalk and Graphite.		4. Clay and Graphite	
27.	Which gas usually causes explosion	ons in coal mine	s?	
	1. Hydrogen 2. Car	bon monoxide	3. Air	4. Methane
28.	Most of the carbon dioxide in the b	lood is carried in	the form of which of the for	ollowing?
	1. Carbonic acid		2. Bicarbonates	<u> </u>
	3. Carbaminohemoglobin		4. Dissolved Carbon did	oxide
29.	Network components are connecte	d to the same ca	able in which among the f	ollowing topology?
	1. Star 2. Rin	a	3. Bus	4. Mesh
30.	What do you mean by a digital sigr	ature?		
	1. A bit string giving identity of a co	prrespondent and	corresponding information	n
	2. A unique identification of a sende	er	3. An encrypted signatur	e of sender
	4. An authentication of an electronic	c record by tying	it uniquely to a key which	a sender only possesses
31.	Who authored the famous book "T	he Indian Struggl	e"?	
	1. LalaLajpat Rai		2. Jawahar Lai Nehru	
	3. Subhash Chandra Bose		4. Dr. Raiendra Prasad	
32.	What is the name of India's 100th	operational airpo	rt inaugurated recently by	the Prime Minister?
	1. Lengpui Airport 2. Silc	har Airport	3. Pakyong Airport	4. LokprivaGopinathBordolai Airport
33.	In which battle Sher Shah Suri def	eated Humayun?	, , , , , , , , , , , , , , , , , , , ,	
	1. Battle of Panipat 2. Bat	tle of Kannauj	3. Battle of Chausa	4. Battle of Khanwa
34.	Who is the "Comptroller and Audito	r General of India	a (CAG)" at present?	
	1. Shashikant Sharma 2. Vija	v Kelkar	3. VikasSwarup	4. Raiiv Mehrishi
35.	Supreme Court of India is authorize	ed to issue "Write	s" under which article of Ir	ndian constitution?
	1. Article 30 2. Artic	cle 31	3. Article 32	4. Article 34
36.	Which of the following is highest p	eak in south India	a?	
	1. Nilgiri 2. Do	dabetta	3. Kalsubai	4. Anamudi
37	Which of the following term is not	mentioned in the	Preamble of Indian Consi	titution?
57.	1. Socialist 2 Sec	cular	3. Franchise	4. Justice
38	Which article of the Indian Constitut	ion mandates for	free and compulsory educ	cation for children unto the age of 14 years?
55.	1 Article 19A 2 Artic	le 20R	3 Article 21A	4 Article 22C
30	Famous "Kalinga War" took place	in which vear?		
55.	1 258 BC 2 262	BC	3 232 BC	4 261 BC

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40.	Nameri National Park" is	located in which state of	of India?								
	1. Arunachal Pradesh	2. Assam	3. Tripura	4. Himachal Pradesh							
41.	'Gini Coefficient' is used	to measure which quan	tity?								
	1. Migration Rate	2. Income Inequality	 3. Employment Rate 	e 4. Poverty							
42.	The "Gayatri Mantra" has	been taken from which	of the following "Veda"?								
	1. Upanishad	2. Atharvaveda	3. Rigveda	4. Yajurveda							
43.	Government has announ	ced to set up India's fire	st dolphin research centre	e in which state?							
	1. Uttarakhand	2. Uttar Pradesh	3. Bihar	4. Jharkhand							
44.	 India's Non -GovernmentalOrganisation (NGO) 'Yuwa' recently won 'Laureus Sports for Good Honour' becoming the thi Indian entry to receive this honour. This NGO works in which state of India? Olithing a second data and a										
	1. Sikkim	2. Jharkhand	3. Odisha	4. Chhattisgarh							
45.	Which Organisation has	released a report name	d "Regulatory Indicators	for Sustainable Energy 2018"?							
	1. Asian Development Ba	ank	2. World Bank								
	3. New Development Ba	nk	4. International Mon	etary Fund							
46.	A container contains mix container is what percent water becomes 48%?	tture of water and milk i age with respect to amo	n which concentration of unt of mixture present in	f water is 35%. The amount of water added to container initially such that final concentration of							
	1. 25%	2. 30%	3. 20%	4. 40%							
47.	Efficiency of Varun is 125 rest with the help of Varu	% of the efficiency of Taru n. In how many days, w	un. Tarun starts the work a ill the whole work be con	and completes 32.5% of work alone 13 days, and npleted?							
	1. 22 days	2. 28 days	3. 25 days	4. 18 days							
48.	A number x is divided in the from x is 396. Find the value of the valu	ne ratio of 5 : 6 : 3, respe llue of 'x'	ctively. 22% of the smalles	st number out of the 3 numbers which are formed							
	1. 7700	2.9800	3. 7000	4. 8400							
49.	If Pintu travels with 20% km far, then find the time	more speed than his oriq taken by him if he trave	ginal speed, then he react als with a speed which is	hed his office 6 minutes earlier. If his office is 36 20% less than his original speed.							
	1. 50 minutes	2. 45 minutes	3. 40 minutes	4. 54 minutes							
50.	A train of length 225 m c of 375 m.	an cross a tree in 18 se	conds. Find the time take	n by the same train to cross a platform of length							
	1. 40 seconds	2. 45 seconds	3. 32 seconds	4. 48 seconds							
51.	Ratio of speed of stream upstream in 11 hours, the	to speed of boat in still w en find the speed of boa	vater is 2:7, respectively. If at in still water.	f a boat travels 144 km downstream and 140 km							
	1. 28 km/h	2. 35 km/h	3. 21 km/h	4. 42 km/h							
52.	There are two concentric areas of the circles is 684	circles i.e. C_1 and C_2 . If rational conduction of the radius of	adius of circle C_1 is 6 cm le circle C_2 . [Take $\Pi = 3$]	ess than that of circle C_2 , and difference between							
	1. 20 cm	2. 24 cm	3. 22 cm	4. 18 cm							
53.	Sum of perimeters of a s If breadth of rectangle is	quare and a rectangle is 26 cm, then find the are	212 cm. Ratio of length on a of the square.	of rectangle to side of square is 4:3, respectively.							
	1. 441 cm ²	2. 729 cm ²	3. 484 cm ²	4. 576 cm ²							
54.	At what rate of compoun	d interest will the sum o	Rs. 7500 become Rs. 1	0092 after 2 years?							
	1. 20%	2. 16%	3. 12%	4. 24%							
55.	Average of number of bo and Lalan 246. Find the	oks sold by Prakash, Vik number of books sold b	ash, and Lalan is 212, wh y Vikash.	nile average of number of books sold by Prakash							
	1. 156	2. 132	3. 162	4. 144							
56.	Rohan scores 6 more run runs scored by him in th	is in each match than pre e first 12 matches.	evious match. If runs score	ed by him in 3rd match are 32, then find the total							
	1. 636	2. 642	3. 620	4. 654							
57.	Punit sold his cycle at Rs sell the cycle to earn a p	. 1628 to Manmeet. Mar ofit of 26%?	meet spent Rs. 122 for r	epairing the cycle. At what amount will Manmeet							
	1. Rs. 2216	2. Rs. 2205	3. Rs. 2180	4. Rs. 2195							
58.	After 12 years, age of Ka find the present age of k	pil will become 5 years n Capil.	nore than twice the age of	f Preeti. If present age of Preeti is 12 years, then							
	1. 45 years	2.38 years	3. 41 years	4. 49 years							

4.1056

- 59. What is the value of 40% of 55% of 60% of 8000 ?

 1. 1075
 2. 1224
 3. 1120
- 60. A number when divided by 123 leaves remainder 86. If the same number is divided by 41, then find the remainder.

1.1 2.2 3.3 4.4

61. The pie chart represents the percentage distribution of funds allocated to different sectors by the state government out of the total funds allocated to all sectors together.



If fund allocated in Education sector is Rs. 2560 crore, then find the fund allocated in Urban Development.

1. Rs. 1120 crore 2. Rs. 1350 crore 3. Rs. 1240 crore 4. Rs. 1280 crore

Directions (62 - 63) : Answer the questions based on the information given below.

The table below represents the number of people who live in rural area and number of people who live in urban area in 3 different states.

Total population of a state = Number of people who live in rural area + Number of people who live in urban area.

State	Number of people who	live in urban area	Number of people who live in rural area
Jharkhand	2400		3200
Bihar	3000		5000
Uttar Pradesh	3200		6800
What percentage of the tota	al population of Bihar live	s in urban area?	
1. 40%	2. 37.5%	3. 42.5%	4. 35%

- 63. What is the ratio of total population of Jharkhand to the total population of Uttar Pradesh?1.7:202.14:253.9:164.2:5
- 64. AB is the common chord of the given two circles. ABC is an equilateral triangle. If angle DAC = 115^o and angle DBC = 110^o, then find the angle AEB.



 1. 70°
 2. 80°
 3. 75°
 4. 60°

62.

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65.	A pipe can fill a tank in	x hours and another can	empty it in y hours. They	can together fill it in (y > x)
	1. $\frac{xy}{y-x}$ hours	2. x - y hours	3. y - x hours	4. $\frac{xy}{x-y}$ hours
66.	Two poles of height 7 distance between thei	' metre and 12 metre star r top will be	nd on a plane ground. If	the distance between their feet is 12 metre, the
	1. 15 metre	2. 13 metre	3. 19 metre	4. 17 metre
67.	AB is a line in which co of line AB.	o-ordinates of point A and	point B are (-8, 5) and (6,	1) respectively. Find the co-ordinates of mid-point
	1. (-2, 2)	2. (2, 5)	3. (-1, 3)	4. (1, -3)
68.	If x = $(\sqrt{3} + 2)$, find the	e value of [{(x ⁴ - 1)/(x ² - 1)}	- 4 \(\)3].	
	1.8	2.9	3. 6	4. 2
69.	If $(a + b + c) = 0$, then	find the value of 1/bc + 1/c	a + 1/ab.	
	1. 1	21	3. 2	4.0
70.	The tower was standin bottom of the tower at	g on top of a building of he an angle of elevation of 6	eight 40 m. Raj was standi 0º and 45º, respectively. F	ing on the ground and was looking at the top and Find the height of tower.
	1.20 ($\sqrt{3}$ -1)	2. 40 $\sqrt{3}$	3. 40 ($\sqrt{3}$ - 1)	4. 40 ($\sqrt{3}$ + 1)
71.	Two inlet pipes A and E in 36 minutes. If all the the entire tank.	3 can fill the tank alone in 1 e pipes are opened togeth	8 minutes and 24 minutes her and after 6 minutes ou	, respectively. An outlet pipe C can empty the tank utlet pipe is closed, then find the time taken to fill
	1. 10 minutes	2. 13 minutes	3. 14 minutes	4. 12 minutes
72.	If the area of a circle is	s A, radius of the circle is	r and circumference of it is	s C, then
	$1 \cdot \frac{A}{r} = C$	2. rC=2A	3. $\frac{C}{A} = \frac{r}{2}$	$4. AC = \frac{r^2}{4}$
73.	A shopkeeper sold an Find the marked price	article of cost price Rs. 272 of the article.	20 at a profit of 10% after (giving two successive discounts of 12% and 15%.
	1. Rs. 4000	2. Rs. 4400	3. Rs. 4200	4. Rs. 3800
74.	If $\cos 60^\circ$ + $\csc B$ =	5/2, then find the value of	tan 2B + sin 2B. (Oº < B <	< 90°)
	1. 3 √3 /2	2. $\sqrt{3}$	3. $\sqrt{3}/4$	4. $2/\sqrt{3}$
75.	If $(1/\cot x + 1/\cos x) = 1$	9, then find the value of (1/	′cos x - 1/cot x).	
	1. 1/9	2. \(\{\}3\)	3. 9	4. 1/3 √ <u>3</u>
76.	Which among the follo	owing words can be forme	ed using the letters of the	given word?
	HYPOTHETICAL			
	1. ELEPHANT	2. LITERATE	3. TEACHER	4. POLITE
77.	There are 7 persons N Q but not the eldest. S T. Neither P nor R is e	, M, P, Q, R, S and X who , who is younger than Q, is Ider than Q. How many p	are of different age groups the 2nd youngest person erson are elder than M?	s. No two persons are same in age. T is elder than n. N, who is the 3rd eldest person, is younger than
	1. 4	2. 1	3. 3	4.0
78.	Three of the following following doesn't belo	four options are alike in ng to the group?	a certain way based on	the Alphabetical series. Which one among the
	1. EK	2. GM	3. OT	4. RX

79. If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?



82. If CHAMBER is written as MAHCEBR, then which among the following can be written as SALIENT?

1. ILASENT 2. ILANSET 3. ILSANET 4. ILASNET

83. Rashmi walks from point K to point L in a straight line. Standing at point L, she turns 225° clock wise direction and walks straight to reach point M. Standing at point M, she again turns 135° anti clock wise direction and walks straight. She founds that she is walking towards South direction. What is the direction of point L from Point K?

1. North west 2. East 3. South west 4. South east

84. If in a certain language, "HEADLINE" is coded as "@ # ! % = + # and "BIGGEST" is coded as "? = && # $\beta \alpha$ ". How is "DESIGNATE" coded in that code?

1. %# $\beta = \beta !+ \alpha #$ 2. %# β =+&! α # 3. %# β =&+! α # 4. %#= β &+! α #

85. In the given question, three statements are given each followed by two conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements:

Statements : All kitchens are rooms. No room is house. Some houses are offices.

Conclusions :

- I. Some kitchens are houses. II. Some rooms may be offices.
- 1. Only conclusion I follows 2. Neither conclusion I nor conclusion II follow
- 3. Only conclusion II follows 4. Both conclusion I and conclusion II follow
- 86. A Series is given with one term missing. Choose the correct alternatives from the given ones that will complete the series: VURP, NMJH, ?, GFCA

1. XYUS 2. YXUS 3. XYSV 4. XYSU

87. Which among the given operators should replace the (in the same order) in the given expression below:

4 & 1 4 & 2 & 3 & 5 & 3 & 11

```
1. =, \div, -, -, x, -
                                        2. =, \pm, x, =, x, -
                                                                           3. =, =, -, \div, X, -
                                                                                                                4. =, \pm, -, =, x, -
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88.	Which among the fo pattern?	llowing set of letters can b	be placed in the gaps in	the given alphabet series to follow a particular
	de_fgh_i_deef_hh_j	_eef_h_ij		
	1. ehjgidhg	2. ehjigdgh	3. ehjgigdh	4. ehjgidgh
89.	A series is given with series?	h one two term missing. C	hoose the correct altern	native from the give ones that will complete the
	10.5 22 45 91 ?			
	1. 182	2. 183	3. 184	4. 185
90.	In a certain coded la written in that code la	nguage, 'COLLIDE' is writt anguage?	en as '2188043' and 'FIC	GHT' is written as '60579'. How is 'HIGHLIGHT'
	1. 705870579	2. 705780579	3. 705785079	4. 707580579
91.	Select the related nu	mber from the given altern	atives:	
	6:20::8:?			
	1.27	2. 25	3. 29	4. 28
92.	Point F is 18m west of A is 14m east of poin	f point G, which is 5m north t B. What is the distance be	of point E. Point B is 5m s etween point F and point	outh of point C, which is 9m west of point D. Point C, if point E is 5m east of point D?
	1. √ <u>42</u> m	2. 7m	3. √ <u>41</u> m	4. 6 √3 m

93. 5 persons P, Q, R, S and T sit in a straight row facing east but not necessarily in the same order. How many persons sit between R and T?

Statement I: R sits 2nd to the right of P. Two persons sit between P and T. Q sits 3rd to the right of S.

Statement II: S sits immediate left of R. Only one person sits between R and Q. P sits 3rd to the left of T.

1. If the data given in statement I alone is sufficient to answer the question.

2. If the data given in both statement I and statement II are sufficient to answer the question.

3. If the data given in either statement I or statement II alone is sufficient to answer the question.

4. If the data given in statement II alone is sufficient to answer the question.

94. Select the related letters from the given alternatives:

JPHR : LSMY :: ? : FEVR

1. DCQK 2. BDQK 3. DBQK 4. DBKQ

95. Identify the diagram that best represents the relationship among the given classes: Sugarcane, Sugar, Rice



96. Find out the odd word/letter/number pair from the given alternatives.

2. Nagaland

1. Mizoram

3. Assam

4. Maharashtra

97. Pointing to a man, Kaushal said, "He is the brother of my maternal grandfather's only daughter". How is the brother of man related to Kaushal's mother?

	1. Husband	2. Brother in law	3. Brother	4. Cousin		
98.	Find the odd one from the f	ollowing:				
	1. 27, 729	2. 14, 225	3. 16, 289	4. 23, 576		

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99. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-1 are numbered from 1 to 4 and that of Matrix-II are numbered from 5-8. A letter from these matrices can be represented first by its row and next by its column, for example, 'A' can be represented as '33', and 'B' can be represented by '24', '85'. Similarly, you have to identify the set for the word 'HEALTH'.

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1	2	3	4
М	D	Н	Q
W	J	Ν	В
R	G	Α	Т
0	S	F	Ε
5	6	7	8
W	R	Ν	Н
L	Α	С	Ν
U	D	Κ	S
В	I	V	Х
	1 M R 0 5 W L U B	1 2 M D W J R G 0 S 5 6 W R L A U D B I	1 2 3 M D H W J N R G A 0 S F 5 6 7 W R N L A C U D K B I V

1. 13, 44, 66, 65, 43, 58

3. 58, 44, 33, 65, 34, 13

2. 58, 44, 33, 56, 34,13
 4. 13, 44, 66, 43, 65, 58

100. If a mirror is placed on the line PQ, then which of the answer figures is the right image of the given figure?



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	SSC	C TES	Т				28 / 2021								KEY SHEET					
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 - 20	2	1	1	3	1	1	1	4	2	3	3	2	1	2	2	3	3	2	2	3
21 - 40	2	1	1	3	4	2	4	4	3	4	3	3	3	4	3	4	3	3	4	2
41 - 60	2	3	3	2	2	1	3	4	2	4	1	3	4	2	4	1	2	3	4	4
61 - 80	4	2	2	3	1	2	3	1	4	3	4	2	1	1	1	4	4	3	2	4
81 - 100	1	4	2	3	3	2	4	4	2	2	4	3	3	3	4	4	3	1	3	2

Note : Key corrections, if any, will be informed in the key of the next test. (or) it may be displayed on the notice board