SSC HIGHER SECONDARY LEVEL EXAM MODEL PAPER

No.of Questions: 200 Total Marks: 200 Time:120 Minutes

GENERAL INTELLIGENCE

Directions (1 - 6): Select the one which is different from the other three responses.

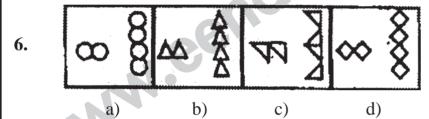
- 1. a) Sweet
- b) Bitter
- c) Salty
- d) Insipid

- **2.** a) Lion
- b) Goat
- c) Tortoise
- d) Centaur

- **3.** a) Square
- b) Circle
- c) Rectangle
- d) Triangle

- **4.** a) AJKL
- b) IBCD
- c) ORQP
- d) UFGH

- **5.** a) DEB
- b) RTP
- c) HIF
- d) NOL

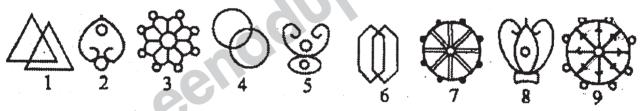


7. Find out the set of numbers amongst the four sets of numbers given in the alternatives which is most like the set given in the question.

Given set (3, 18, 36)

- a) (2, 10, 16)
- b) (12, 72, 96)
- c) (4, 24, 48)
- d) (6, 42, 48)

8. Directions: A series of figures are given which can be grouped into classes. Select the group into-which the figures can be classified from the given responses.



- a) 1, 4, 8;
- 2, 5, 7;
- 3, 9, 6
- b) 1, 4, 6;
- 2, 5, 8;
- 3, 7, 9

- c) 1, 4, 6;
- 2, 5, 7; 3, 8, 9
- d) 1, 2, 3;
- 4, 5, 6;
- 7, 8, 9
- **9.** Arrange the following words according to the Dictionary:
 - 1. Sound
- 2. Socks
- 3. Shock

- 4. Sharp
- 5. Snooker
- a) 5, 4, 3, 1, 2

b) 4, 3, 5, 2, 1

c) 3, 4, 5, 1, 2

d) 4, 3, 2, 5, 1

Directions (10 - 11): Given below are letters A to Z. Under each capital letter a small letter is written which is to be used as code for the capital letters.

A	В	C	D	Е	F	G	Н	I	J	K	L	M	N	О	P	Q	R	S	Т	U	V	W	X	Y	Z
j	r	g	m	t	w	n	b	v	Z	у	d	q	s	f	u	i	a	0	h	k	c	X	l	e	p

In each of the following questions a group of six capital letters is given and columns (a), (b), (c) or (d). Study the group of letters given in each question and with the help of code given above choose the code equivalent from amongst (a), (b), (c) or (d) as your answer.

a)	b)	c)	d)
uhvrki	bafynx	akilmj	obejxz
cniljq	qukdts	rbvsed	gafzxy
obelkz	ocdjxz	whvrku	bmllkq
gafymt	bnklmq	gabzmir	mpqtva

- 10. MPULEN
- 11. SHYAWJ
- **12.** Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

H - JH - IJHHI - HH - JH

- a) IHJI
- b) HIHI
- c) IHIJ
- d) HJHJ

Directions (13 - 15): Find the missing number/letters in the series.

- **13.** DHL, PTX, BFJ, ?
 - a) NRV
- b) RVZ
- c) CGK
- d) KOS

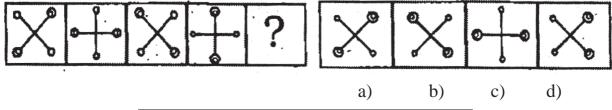
- **14.** 22, 24, 28, ?, 52, 84
 - a) 46
- b) 36
- c) 38
- d) 42

- **15.** 3, 7, 23, 95, ?
 - a) 575
- b) 479
- c) 128
- d) 62

Directions (16-17): Find the missing figure in the series from the given answer figures.

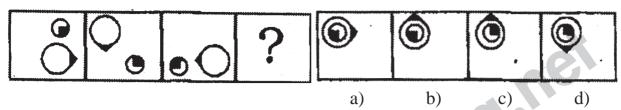
16. Question Figures

Answer Figures



17. Question Figures

Answer Figures



Directions (18 - 19): Below are given roll numbers of some candidates registered at different centres for an examination. The first two digits from left stand for the centre code and the next four for the serial number of the candidates registered at the centre.

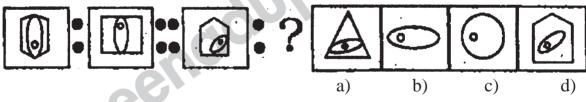
153765	475641	473417	354231	
345487	342172	243212	662387	
472364	152346	349895	212223	
346704	214687	662479	473765	
660124	665214	476789	154318	
215132	471369	342567	476218	

Now answer the following questions based on the sample of roll numbers.

- **18.** Which of the following centres had the highest serial numbers?
 - a) 47
- b) 34
- c) 58
- d) 21
- **19.** Which of the following centre-pairs had the some common serial numbers?
 - a) 15 and 34
- b) 34 and 66
- c) 15 and 47
- d) 21 and 24
- **20.** Select the related figure from the answer figures.

Problem Figures

Answer Figures



Direction (21 - 22): In these questions the name of a town and a date is given followed by four alternatives (1, 2, 3 and 4). Of these alternatives only one matches the town and the date given below while others have some mistakes or the other. You are to choose the alternative as your answer which is exactly the same as the given one.

- 21. Kootch Bihar 18, February, 1969
 - a) Kootch Bihar 18, February, 1996
- b) Kootch Bihar 18, February, 1969
- c) Koatch Bihar 18, February, 1969
- d) Kootch Bihar 13, February, 1969

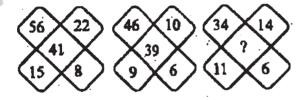
22.	Muzaffarpur 27	August, 1802					
	a) Muzaffarpur 2	27 August, 1820	b) Muz	affarpur	17 Augu	ıst, 1802	
	c) Muzaffarpor 2	27 August, 1802	d) Muz	affarpur	27 Augu	ıst, 1802	
23.	A is the sister of	B. B is the brother of	C, C is th	ne son of l	D. How i	is D relate	ed to A?
	a) Mother	b) Daughter	c) Son		d) U	Jncle	
24.	Ramesh's. Nare	re costlier. Ram's coi sh's coin is costlie costlier than Mohan	r than R	lam's bu	lighter	than Y	ogesh's.
	a) Ram	b) Ramesh	c) Yogo	esh	d) N	Varesh	
25.	_	Capital Letters is formed using the I					
	a) MIND	b) RATION	c) MIN	VISTER	d) S	STATION	1
26.	If $A = 2$, $M = 26$	δ and $Z = 52$, then B	ET = ?				
	a) 44	b) 54	c) 64		d) 7	72	
27.	turned towards r elled 7 km up to	From point X and tright and travelled 5 point A and then turistance between points.	km up to j rned towa	point Z thurds right	nen turne	ed right a	nd trav-
	a) 1 km	b) 2 km	c) 3 kn		,	ł km	
28.	Which answer fi	igure will complete	the questi	on figure	?		
	Question figur	e	Answe	r figure			
				%	No.		
		a)	b)	c)	d)		
29.		f a dice are shown b	elow:				
	Question figu	are		Answer	figure		1
	回回		☆	•	0	\Diamond	
	When the heart	shape is at the	a)	b)	c)	d)	
	top, what will be	e at the bottom?					

Directions (30 - 31): A statement is given followed by four conclusions (a), (b), (c) and (d). You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statement. Indicate your answer.

- **30.** Fertilizer consumption in India in 1984 85 was 8.21 MT. By 1990 it was 13.75 MT and by 2000 it is expected to reach 16 MT. What is your conclusion?
 - a) Fertilizer consumption is steady.
 - b) There is a steady decrease in fertilizer consumption.
 - c) Fertilizer consumption does not show any trend.
 - d) There is a steady Increase in fertilizer consumption.
- **31.** All guilty politicians were arrested. Tom and Gopal were among those arrested.
 - a) Tom and Gopal were guilty.
 - b) Tom and Gopal were not politicians.
 - c) All arrested people are politicians.
 - d) All politicians are guilty.

Directions (32 - 33): Find the missing number from the given responses.

32.



a) 25

b) 52

c) 12

d) 48

	9	11	13
33.	3	4	7
	3	4	5
	81	176	?

a) 169

b) 143

c) 455

d) 545

34. Find out the pair of numbers that does not belong to the group for lack of common property.

a) 34 - 43

b) 62 - 71

c) 55 - 62

d) 83 - 92

35. Who are educated males but who do not live in urban area?

Urban People

a) 4

b) 11

☐ Civil Staff

c) 5

d) 9

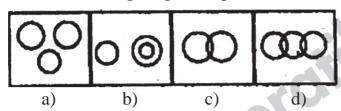
☐ Male

△ Educated

36. If '+' stands for Multiplication, '×' stands for Division, '-' stands for Addition and '÷' stands for Subtraction, what would the following equation stand for?

$$20 - 8 \times 4 \div 3 + 2 = ?$$

- a) 41
- b) 19
- c) 16
- d) 18
- 37. Which of the following diagram represents Mammals, Cows and Crows?



- **38.** In a particular way of coding, the word CENTRAL is coded as ABCDEFG and PLANETARIUM as HGFCBDFEIJK. With the same coding how can we express the word LANTERN?
 - a) GFCDFEG
- b) GFCDBEC
- c) GFCDEFG
- d) GPCDBEB

Directions (39 - 40): In each of the following questions find out which one of the rows and / or columns are related with each other in some way? Choose the best answer from amongst four alternatives (a), (b), (c) and (d).

39.

		Colum	nns	
Rows	I	II	III	IV
1	3	4	8	24
2	3	5	7	21
3	7	9	6	14
4	6	4	5	12

- a) Rows 1 and 2; Columns III and IV
- b) Rows 1 and 2; Columns I and II
- c) Rows 1 and 4, Columns III and IV
- d) Rows 2 and 3; Columns I and III

40.

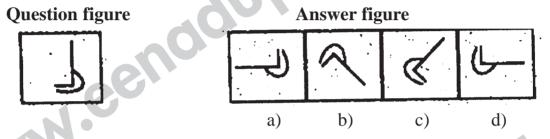
		Colı	umns	
Rows	Ι	П	III	IV
1	4	3	7	14
2	2	5	8	15
3	2	12	6	10
4	5	30	6	12

- a) Rows 3 and 4; Columns I and II
- b) Rows 1 and 2; Columns II and III
- c) Rows 2 and 3, Columns I and IV
- d) Rows 2 and 4; Columns II and IV

41. A paper is folded as shown in the given figures and a cut is made. When opened how will it appear? Choose from the given responses.

Question Figures Answer Figures a) b) c) d)

42. The question figure given below may be turned in any direction but not be picked up and turned over. Find out the correct figure which could be formed by rotating the question figure.



Directions (43 - 44): In these questions an address has been given which has been reproduced against (a), (b), (c) and (d). Of them, three have some mistakes, while one is Exactly the same as given below. You are to choose the one as your answer which is Exactly the same reproduction of the given address.

- 43. M.S. Shakuntalam Sri Niwaspuri C-108/118 Janakpuri Delhi-110063
 - a) M.S. Shakuntalam Sri Niwaspuil C-108/118 Janakpuri Delhi-110036
 - b) M.S. Shakuntalam Sri Niwaspuri C-108/118 Janakpuri Delhi-110063
 - c) M.S. Shakuntalam Sri Niwaspuri C-108/181 Janakpuri Delhi-110063
 - d) M.S. Shakuntalam Sri Niwaspuri B-108/118 Janakpuri Delhi-110063
- **44.** Anubhav Baharti Jha M.C.R. Building III Floor, Chourangee Lane Kolkata-96
 - a) Anubhav Bahaiti Jha M.C.R. Building III Floor, Chourangee Lane Kolkata-69
 - b) Anubhav Baharti Jha M.C.R. Building III Floor, Chourangee Lane olkata-96
 - c) Anubhav Bahartl Jha M.C.R. Building III Floor, Chourangee line Kolkata-96
 - d) Anubhav Bahartl Jha N.C.R Building III Floor, Chourangee Lane Kolkata-96

Directions (45 - 50): Select the related letters/word /number/figure from the given alternatives.

- **45.** Flow: River:: Stagnant:?
 - a) Pool
- b) Rain
- c) Stream
- d) Canal

- **46.** AZBY : DWEV : : HSIR : ?
 - a) JQKO
- b) KPOL
- c) KPLO
- d) KOLP

- **47.** AKO: ?:: CMW: DNX
 - a) BGL
- b) BLO
- c) BGQ
- d) BLV

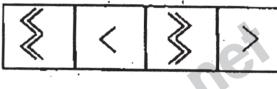
- **48.** 68:130::?:350
 - a) 240
- b) 222
- c) 216
- d) 210

- **49.** 48:122::168:?
 - a) 292
- b) 290
- c) 225
- d) 215

50. Question Figures

Answer Figures





b)

a)

c)

d)

ENGLISH LANGUAGE

Directions (51 - 55): In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. If there is no error, your answer is (d) i.e. No error.

- **51.** I remember (a)/ meet him (b)/ five years ago. (c)/ No error (d).
- **52.** He asked (a)/ that how long (b)/ you would be absent. (c)/ No error (d).
- **53.** He ate (a)/ nothing (b)/ since yesterday. (c)/ No error (d).
- **54.** She (a)/ is working here (b)/ since 1983. (c)/ No error (d).
- **55.** Madhuri Dixit is having (a)/ a large (b)/ fan following. (c)/No error (d).

Directions (56 - 60): In the following questions sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

- **56.** He was accused of bringing money into the country in of foreign exchange rules.
 - a) anticipation
- b) compensation
- c) perpetration
- d) violation

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57.		s forgot to	-	
57.	a) turn up for prac		b) run away from s	chool
			•	
50	c) buy shoes for the		d) bring his books f	
58.	•		the way things a	
=0	a) with	b) to	c) for	d) at
59.	-	_		y political instability.
	a) reflected	b) effected	c) affected	d) expected
60.	The agenda for the	ne meeting is	the notice.	
	a) forwarded in	b) subscribed to	c) enclosed with	d) delivered as
Direc	ctions (61 - 65): In	the following quest	tions, out of the four	alternatives, choose
th	e one which best e	expresses the meani	ing of the given word	d.
61.	FORTIFY	8,		
	a) create	b) generate	c) prohibit	d) strengthen
62.	PACIFY			
	a) calm down	b) satisfy	c) rouse	d) rejoice
63.	PAUCITY			
	a) surplus	b) shortage	c) excess	d) meanness
64 .	TEDIOUS		1.10	
	a) devious	b) dull	c) distinctive	d) derogatory
65.	ATROCITY			
	a) envy	b) violence	c) jealousy	d) absurdity
Direc	ctions (66 - 70):	In the following q	questions, choose th	ne word opposite in
m	eaning to the give	n word.		
66.	HEREDITARY			
	a) carried	b) acquired	c) possessed	d) regained
67.	MISERY			
	a) glad	b) pleasant	c) enjoy	d) bliss
68.	BARBAROUS			
	a) improved	b) cordial	c) civilized	d) modified
69.	DYNAMIC			
	a) stable	b) still	c) lazy	d) static

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70.	DILIGENT		1	
	a) intelligent	b) lazy	c) boastful	d) notorious
Dire	ections (71 - 75) :	In the following qu	estions, four alter	natives are given for the
i	diom/ phrase prin	ted in bold in the so	entence. Choose th	e alternative which best
e	expresses the mea	ning of the idiom/ p	phrase.	
71.	Having no argumbush.	ments to defend his	point, the speaker	began to beat about the
	a) wander acros	s the words	b) speak in a ha	phazard manner
	c) speak in a rou	and-about manner	d) make use of i	rrelevant reference
72.	They were offer	ed six months rent i	n lieu of notice to	vacate the building.
	a) in spite of	b) in place of	c) despite of	d) in addition to
73.	The reputed con	npany is in the red	due to the recession	n.
	a) making mone	ey .	b) losing money	7
	c) in danger		d) spending mor	ney
74.	When the Princ	ipal was entering th	e class, all my frie	nds quietly disappeared,
	leaving me alon	e to face the music		UR.
	a) to listen to hi	m	b) to enter into	the class
	c) to bear the cr	iticism	d) to listen to a	favourable comment
75.	The Kenyan tea	m proved to be the	dark horse in the l	CC World Cup Cricket.
	a) a strong intru	der	b) a skilled tean	1
	c) the most pow	erful	d) an unexpecte	d winner
Dire	ections (76 - 80):	In the following qu	estions, a part of th	he sentence is printed in
	_		_), (b) and (c) which may
	_		rect alternative. In	case no improvement is
	needed your answ			
76.		nted me the more ex		40.35
	a) much	b) mere	c) most	d) No improvement
77.		Vimal are going to b		
	a) has	b) is	c) have been	d) No improvement
78.	Nisha is more f	unnier than Natasha	a.	

c) quite funny d) No improvement

b) funniest

a) funnier

www.eenadupratibha.net **79.** The office staff members wished each and other on New Year's Day. a) one other b) one another c) each another d) No improvement **80.** The two brothers shared the property **beside** themselves. a) among b) between c) amidst d) No improvement Directions (81 - 85): In the following questions, choose the one which can be substituted for the given words/phrase. 81. A person who loves mankind c) philanthropist d) mercenary a) misanthrope b) anthropologist **82.** To confirm with the help of evidence a) corroborate b) implicate c) designate d) extricate 83. The action of looking within or into one's own mind b) examination a) observation c) introspection d) introvert 84. One who has narrow and prejudice religious views a) religious b) fanatic d) god-fearing c) bigot 85. Capable of being interpreted in two ways a) confusing b) unclear c) ambiguous d) ambivert Directions (86 - 95): In the following passage, some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternatives given. **PASSAGE** Indu 'didda' loved to wear saris. Her (86) collections, which Sonia inherited, were remarkable for not only (87) taste, but also the (88) of weaves and traditional representations. I do not think any other public figure (89) the first five decades after independence was so (90) to acquire saris of distinct (91) as 'didda' did. (92) you noticed this fact when meeting her, you not only joined her circle of (93) persons on traditional textiles. (94) also got a chance to bring her (95) to the cause you were espousing. Now this was very rare.

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c) personnel

c) good

c) extent

c) for

d) particular

d) suitable

d) variety

d) since

b) peculiar

b) worthy

b) mixture

b) in

86. a) private

a) extravagant

a) uniformity

a) with

87.

88.

89.

90. a) keen b) attracted c) earnest d) enthusiastic 91. a) base b) wave d) length c) weave 92. a) When b) Also c) If d) But 93. a) snobbish b) knowledgeable c) smart d) wonderful d) But 94. a) Hence b) So c) Thus

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Directions (96 - 100): In the following questions, you have one brief passage with 5 questions.

c) observation

d) concern

b) attention

95.

a) notice

Read the passage carefully and choose the best answer to each question out of the four alternatives.

PASSAGE

This is the thorny side of the prevailing examination system. Most examiners have perfected their skill in making it a veritable nightmare for majority of the students.

Quite unwittingly we have increased the enrolment in schools alarmingly. Most of the students have neither the requisite aptitude to learn nor any clear-cut goal in life. The destiny of students would be decided in the final examination of a written nature to-test bookish, rote memory.

All laudable objectives of kindling originality and problem solving ability are trumpeted only in educational seminars and workshops. Ultimately all these are gone with the wind. No wonder examination hangs like a Damocles' sword.

Compare this with a related discipline such as music and dance. None would venture to seek entry into such centres of excellence unless one has proven aptitude to profit from training.

Here the students have excellent rapport with their teachers who evaluate their performance on a day-to-day basis and provide constant feedback. Students enjoy practising at home what they are taught in class.

As they realise their progress by constant reinforcement they welcome and enjoy examination in class. Under the watchful guidance of committed teachers, students grow and blossom out as well-trained artistes.

This is possible and feasible because the teacher-pupil ratio is ideal and the attitude of the learner is based on devotion and dedication.

- **96.** "Ultimately all these are gone with the wind." The above sentence shows that the writer
 - a) enjoys the prevailing situation
 - b) regrets our ignoring the aims of true education
 - c) is quite satisfactory about the syllabus
 - d) makes fun of teachers and their students
- **97.** The passage emphasises the need for
 - a) making dance and music compulsory in schools.
 - b) making examinations an enjoyable experience.
 - c) seeking easy questions in the examinations.
 - d) warning examiners who harass students in the examinations.
- **98.** The writer is dissatisfied with the examiners because they test students
 - a) memory
- b) originality
- c) aptitude
- d) creativity
- **99.** The writer's intention to compare the topic of discussion, with that of dance and music is to.
 - a) show how students of dance and music enjoy not only learning but also examinations.
 - b) popularise dance and music among all children.
 - c) congratulate teachers who take good care of their students.
 - d) prove that dance and music alone can bring peace to us.
- 100. According to the passage, the objectives of education should be
 - a) to teach dance, music and drama to students in schools and colleges
 - b) to reduce teacher-pupil ratio
 - c) not to test bookish, rote memory
 - d) to encourage originality and problem solving ability

Quantitative Aptitude

101. A number when divided by 296, gives a remainder 75. When the same number is divided by 37, the remainder will be

a) 1

b) 2

d) 11

102. If x : y = 7 : 3 then the value of $\frac{xy + y^2}{x^2 + y^2}$ is

a) $\frac{3}{4}$

103. Tea at Rs. 126 per kg and at Rs. 135 per kg are mixed with a third variety in the ratio 1:1:2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg is

a) Rs.169.50

b) Rs.175.50

c) Rs.175

d) Rs.185

104. The price of an article was decreased by 10% and again reduced by 10%. By what percent should the price have been reduced once, in order to produce the same effect as these two successive reductions?

a) 15

b) 19

c) 20

d) 25

105. A student has to obtain 33% of total marks to pass. He got 25% of total marks and failed by 40 marks. The number of total marks is

a) 800

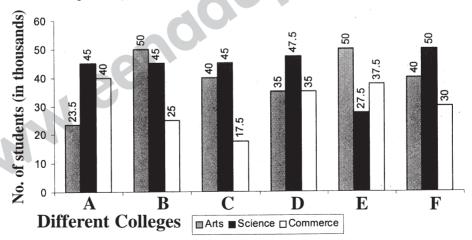
b) 300

c) 500

d)1000

Directions (106 - 110): Study the following Graph carefully and answer the questions given below:

Total Number of Arts, Science and Commerce Students in Various Colleges



106. The number of students taking Arts in college B, is how many thousand fewer than the number of students taking Arts in college A and college C together?

a) 12.5

b) 27.5

c) 50

d) 10

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the students taking Commerce is what percent of the	e t
aking Arts Science and Commerce in all?	

107.		e students taking C ng Arts, Science a		-	tal number
	a) 45	b) 25	c) 59	d) 70	
108.	How many car colleges?	ndidates (in thou	sands) have taker	n Commerce fro	om all the
	a) 165	b) 177	c) 185	d) 193	
109.	_	pective ratio of the ents taking Arts in		udents taking Sci	ence to the
	a) 14:19	b) 12:17	c) 17:19	d) 19:14	
110.		erage number of st ges together? (Rou		, ,	
	a) 44.90	b) 43.33	c) 51.33	d) 49.90	
111.	If $a + b + c = 2$	s then find the val	$ue of (s - a)^3 + (s$	$(-b)^3 + 3(s-a)$	(s - b) c
	a) c	b) c ²	c) c^3	d) $2c^2$	
112.	In selling an art the profit percent	ticle for Rs. 76, th nt will be	ere is a profit of 5	52%. If it is sold	for Rs. 75,
	a) 44	b) 46	c) 48	d) 50	
113.	A point O in the C and D, then	e interior of a recta	angle is joined wit	th each of the ver	rtices A, B,
	a) $OB^2 + OD^2$	$= OC^2 + OA^2$	b) $AO^2 - OI$	$O^2 = OC^2 - OA^2$,
	c) $AO^2 + OD^2$	$= BO^2 + OC^2$	d) $AO^2 + OE$	$3^2 = AC^2 - OD^2$	
114.		are the medians of ares of sides to the			etween the
	a) $2 (AB^2 + BC^2)$	$^2 + AC^2) = 3 (AD^2)$	$+BE^2+CF^2$)		
	b) $4 (AB^2 + BC^2)$	$^2 + AC^2) = 3 (AD^2)$	$+ BE^2 + CF^2)$		
	c) $3 (AB^2 + BC^2)$	$^2 + AC^2) = 4 \text{ (AD}^2$	$+ BE^2 + CF^2)$		
	d) None of thes	e			
115.		mbers, first is twice numbers is 21. T			
	a) 9	b) 6	c) 12	d) 18	
116.	The difference	between compoun	d interest and sim	ple interest on R	s.2500 for

2 years at 4% per annum is
a) Rs.40 b) Rs.45 c) Rs.14 d) Rs.4

- **117.** If the compound interest on a certain sum for 2 years at 3% per annum is Rs.101.50, then the simple interest on the same sum at the same rate and for the same time will be?
 - a) Rs.90.00
- b) Rs.95.50
- c) Rs.100.00
- d) Rs.98.25

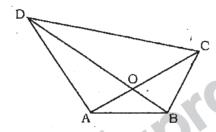
- 118. Match the following:
 - 1. Incentre
- 2. Circumcentre
- 3. Centroid
- 4. Orthocentre
- (A) The point of intersection of all the three altitudes of a triangle.
- (B) The point of intersection of all the three medians of any triangle.
- (C) The point of intersection of all the three angle bisectors of a triangle.
- (D) The point of intersection of the perpendicular bisectors of the sides of a triangle.

The correct match is:

A B C D

A B C D

- a) 1 2 3 4
- b) 4 3 1 2
- c) 4 3 2
- d) 1 3 4 2
- 119. If ABCD is a quadrilateral whose diagonals AC and BD intersect at O, then:

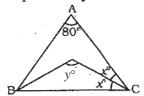


- a) (AB + BC + CD + DA) < (AC + BD)
- b) (AB + BC + CD + DA) > 2(AC + BD)
- c) (AB + BC + CD + DA) > (AC + BD)
- d) (AB + BC + CD + DA) = 2(AC + BD)
- **120.** A student rides on bicycle at 8 km/hour and reaches his school 2.5 minutes late. The next day he increases his speed to 10 km/ hour and reaches school 5 minutes early. How far is the school from his house?
 - a) $\frac{5}{8}$ km
- b) 8 km
- c) 5 km
- d) 10 km
- **121.** A boat goes 20 km downstream in one hour and the same distance upstream in two hours. The speed of the boat in still water is
 - a) 15 km/hr.
- b) 10 km/hr.
- c) 5 km/hr.
- d) 7.5 km/hr.

122.		-	•	C can do the same work
	-	_		her for 10 days when B
	and C leave. How	v many days more	will A take to finish	the work?
	a) 18 days	b) 24 days	c) 30 days	d) 36 days
123.	-	-	days working 5 hours a day complete the	ars a day. In how many ne work?
	a) 10	b) 13	c) 14	d) 15
124.				oipe. If together the two ne will be able to fill the
	a) 81 minutes	b) 108 minutes	c) 144 minutes	d) 192 minutes
125.	A solid metallic s	spherical ball of di	ameter 6 cm is mel	ted and re-casted into a
			2 cm. The height of	
	a) 6 cm	b) 2 cm	c) 4 cm	d) 3 cm
126	The circumference			square inscribed in the
120.	circle is	ce of a effect is 10	o em. The side of a	square insertoed in the
	100 4 2	7 0 4 2	100	
	a) $\frac{100\sqrt{2}}{\pi}$ cm	b) $\frac{50\sqrt{2}}{\pi}$ cm	c) $\frac{100}{\pi}$ cm	d) $50\sqrt{2}$ cm
127.		b) $\frac{50\sqrt{2}}{\pi}$ cm sphere is increased	• \	
127.	If the radius of a	sphere is increased	l by 2 cm, its surfac	e area increases by
127.	If the radius of a 352 cm ² . The rad	sphere is increased lius of the sphere b	d by 2 cm, its surfactefore increase was	e area increases by $\left(\text{take }\pi = \frac{22}{7}\right)$
127.	If the radius of a	sphere is increased lius of the sphere b	l by 2 cm, its surfactefore increase was	e area increases by
	If the radius of a 352 cm ² . The rad a) 3 cm	sphere is increased lius of the sphere b b) 4 cm stween the minute l	of by 2 cm, its surfactories of the surfactori	e area increases by $\left(\text{take }\pi = \frac{22}{7}\right)$
	If the radius of a 352 cm ² . The rad a) 3 cm Find the angle be	sphere is increased lius of the sphere b b) 4 cm stween the minute l	of by 2 cm, its surfactories of the surfactori	e area increases by $\left(\text{take }\pi=\frac{22}{7}\right)$ d) 6 cm
128.	If the radius of a 352 cm ² . The rad a) 3 cm Find the angle be time is 7 : 20 AM a) 100°	sphere is increased lius of the sphere b b) 4 cm stween the minute l I. b) 105°	al by 2 cm, its surfact before increase was c) 5 cm and of a clock and c) 120°	e area increases by $\left(\text{take }\pi=\frac{22}{7}\right)$ d) 6 cm
128.	If the radius of a 352 cm ² . The rad a) 3 cm Find the angle be time is 7 : 20 AM a) 100°	sphere is increased lius of the sphere b b) 4 cm stween the minute l I. b) 105°	al by 2 cm, its surfact before increase was c) 5 cm and of a clock and c) 120°	e area increases by $\left(\text{take }\pi=\frac{22}{7}\right)$ d) 6 cm the hour hand when the
128. 129.	If the radius of a 352 cm ² . The rad a) 3 cm Find the angle be time is 7 : 20 AM a) 100° A point O in the in C and D, then	sphere is increased lius of the sphere b b) 4 cm etween the minute 1 I. b) 105° interior of a rectan	al by 2 cm, its surfact before increase was c) 5 cm and of a clock and c) 120°	e area increases by $\left(\text{take }\pi=\frac{22}{7}\right)$ d) 6 cm the hour hand when the d) 115° ach of the vertices A, B,
128. 129.	If the radius of a 352 cm ² . The rad a) 3 cm Find the angle be time is 7 : 20 AM a) 100° A point O in the integral of the radius of a second	sphere is increased lius of the sphere b b) 4 cm etween the minute 1 I. b) 105° interior of a rectan	before increase was c) 5 cm and of a clock and c) 120° gle is joined with each	take $\pi = \frac{22}{7}$ d) d) 6 cm the hour hand when the d) 115° ach of the vertices A, B,
128. 129.	If the radius of a 352 cm^2 . The radial 352 cm^2 is 352 cm^2 . The radial 352 cm^2 is 352 cm^2 . And 352 cm^2 is 352 cm^2 . And 352 cm^2 is 352 cm^2 . The radial 352 cm^2 is 352 cm^2 is 352 cm^2 . The radial 352 cm^2 is 352 cm^2 is 352 cm^2 .	sphere is increased lius of the sphere by 4 cm. The street the minute lies of the minute lies of the sphere by 4 cm. The street of the sphere by 4 cm. The street of the sphere by 4 cm. T	by 2 cm, its surfact efore increase was c) 5 cm and of a clock and c) 120° gle is joined with each b) $AO^2 - OD^2 =$ d) $AO^2 + OB^2 =$	take $\pi = \frac{22}{7}$ d) d) 6 cm the hour hand when the d) 115° ach of the vertices A, B,
128. 129.	If the radius of a 352 cm^2 . The radius of a 352 cm^2 . The radius of a 3 cm Find the angle betime is $7:20 \text{ AM}$ a) 100° A point O in the in C and D, then a) $OB^2 + OD^2 =$ c) $AO^2 + OD^2 =$ $\frac{a^2}{(a-b)(a-c)} +$	sphere is increased lius of the sphere b b) 4 cm etween the minute 1 I. b) 105° interior of a rectan	by 2 cm, its surface efore increase was compared to be a compared to be a clock and compared to be a	take $\pi = \frac{22}{7}$ d) d) 6 cm the hour hand when the d) 115° ach of the vertices A, B,

- 131. If $\cot \theta + \tan \theta = x$ and $\sec \theta \cos \theta = y$, then $(x^2 y)^3 (xy^2)^{\overline{3}} = ?$
 - a) 4
- b) 3

- d) 1
- 132. In the given figure, $/A = 80^{\circ}$, $/B = 60^{\circ}$, /C = 2x and $/BDC = y^{\circ}$. BD and CD bisect angles B and C respectively. The values of x and y respectively are:



- a) 15° and 70° b) 10° and 160° c) 20° and 130° d) 20° and 125°
- **133.** If $4x \frac{2}{3x} = 4$, $x \ne 0$, then $8x^3 \frac{1}{27x^3} = ?$
 - a) 10

- c) 12
- d) 14
- 134. The chord AB of a circle of centre O subtends an angle 0 with the tangent at A to the circle. ABO is:
- b) $90^{\circ} \theta$
- c) $90^{\circ} + \theta$
- 135. Determine the area of trapezium whose sides are: x = 0, y = 0, y = 4 and 2x + y = 6.
 - a) 4 sq. units
- b) 8 sq. units
- c) 6 sq. units
- d) 16 sq. units
- **136.** Of the three numbers, the first is 3 times the second and the third is 5 times the first. If the average of the three numbers is 57, the difference between the largest and the smallest number is
 - a) 9
- b) 18
- c) 126
- d) 135
- 137. A rhombus of side 10 cm has two angles of 60° each. Then, the length of diagonals are
 - a) $10\sqrt{3}$, 10 cm b) $10\sqrt{2}$, 10 cm c) 5, 10 cm

- d) None of these
- 138. In the given figure, PQRS is a square and $\angle ABC = 90^{\circ}$. If AQ = BR = SC, then consider the following statements:
 - a) Only I and IV are correct
- b) I, II and III are correct
- c) II, III and IV are correct
- d) All are correct
- 139. The product of two numbers is 2028 and their HCF is 13. The number of such pairs is
 - a) 1
- b) 2
- c) 3

d) 4

140.	The three	vertices	of $\triangle ABC$	are A (1.	4). B	(-2, 2)	and C (3.	2). The	area is:
100	The thice	VOICECB		, aic 11 (1,	, 1/, 1	(-2, 2)		, <i>2)</i> . The	area is.

- a) 5 sq.units
- b) 6 sq.units
- c) 7 sq.units
- d) 15 sq.units

141. If
$$a \times b = (a \times b) + b$$
, then 5×7 equals to

- a) 12
- b) 35
- c) 42
- d) 50

- a) A circle is symmetrical about the diameter
- b) Two circles are divided symmetrically by the line passing through their centres.
- c) More than one circle can be drawn through three non- collinear points.
- d) Two circles cannot cut each other in more than two points without coinciding entirely.

143. If
$$\sin B = \frac{1}{2}$$
, then $3 \cos B - 4 \cos^3 B =$

a) 1 b)
$$\frac{3}{4}$$
144. If $\sec \alpha = \frac{5}{4}$, then $\frac{\tan \alpha}{1 + \tan^2 \alpha} =$

- b) $\frac{12}{25}$
- c) $\frac{3}{4}$

145. If
$$x = 2 + \sqrt{3}$$
, find the value of $x^3 + \frac{1}{x^3}$

- a) 52
- b) 54
- c) 56
- d) 58

146. If
$$\tan A = 1$$
 and $\tan B = \sqrt{3}$, then $\cos A \cdot \cos B \sin A \cdot \sin B$ is equal to

a)
$$\frac{1+\sqrt{3}}{2\sqrt{2}}$$
 b) $\frac{1-\sqrt{3}}{2\sqrt{2}}$ c) $\frac{2\sqrt{2}}{3}$

$$b) \frac{1 - \sqrt{3}}{2\sqrt{2}}$$

c)
$$\frac{2\sqrt{2}}{3}$$

147. If
$$a = 0.25$$
, $b = -0.05$, $c = 0.5$, then the value of
$$\frac{a^2 - b^2 - c^2 - 2bc}{a^2 + b^2 - 2ab - c^2}$$
 is

d) $\frac{25}{16}$

a)
$$x > y$$

b)
$$\angle$$
SAB = y

c)
$$\angle$$
SAB = y and \angle RBA = x

d)
$$x = y$$

149.	A vertical tower stands on a horizontal plane and is surmounted	l by a vertical
	flag staff of height h. At a point on the plane, the angle of ele	evation of the
	bottom of the flag staff is α and that of the top of the flag staff i	s β . Then, the
	height of the tower is	200

a) htanα

b)
$$\frac{\tan \alpha}{\tan \beta - \tan \alpha}$$
 c) $\frac{\tan \alpha}{\tan \alpha - \tan \beta}$ d) None of these

150. A man on the top of a tower, standing on the sea-shore, finds that a boat coming towards him takes 10 minutes for the angle of depression to change from 30° and 60°. How soon will the boat reach the sea-shore?

a) 5 minutes

b) 10 minutes c) $\sqrt{3}$ minutes d) None of these

General Awareness

151. Where is the satellite launching centre of India located?

a) Ahmedabad

b) Hassan

c) Sriharikota

d) Thumba

152. Which of the following is not correctly matched with regard to Project Tiger Reserves?

a) Sariska - Alwar

b) Valmiki - Hazaribagh

c) Pench - Garhwal

d) Nagarjunasagar - Srisailam

153. The Harappan Civilisation was discovered in the year:

a) 1935

b) 1942

c) 1901

d) 1922

154. Muhammad-Bin-Tughlaq was proficient in

a) Art

b) Music

c) Calligraphy

d) Philosophy

155. The speed of light with the rise in the temperature of the medium:

a) Increases

b) Decreases

c) Remains unaltered

d) Drops suddenly

156. Clothes keep us warm in winter because they

a) supply heat

b) do not radiate heat

c) prevent air from contacting the body

d) prevent the heat of the body from escaping

157. In a refrigerator what produces the cooling? a) The ice which deposits on the freezer b) The sudden expansion of a compressed gas c) The evaporation of a volatile liquid d) None of these 158. Why are we able to hear short wave broadcasts better than long wave broadcasts? a) Short waves are more energetic than long waves. b) Short waves are unaffected by atmospheric disturbances. c) Short wave broadcasts are made by nearby radio stations. d) By convention, short waves are meant for long distances, whereas long waves are reserved for short distances. **159.** Quartz is made of a) Calcium Sulphate b) Calcium Silicate c) Sodium Sulphate d) Sodium Silicate **160.** What was the basis for constituting the Constituent Assembly of India? a) The Resolution of the Indian National Congress b) The Cabinet Mission Plan, 1946 c) The Indian Independence Act, 1947 d) The resolutions of the Provincial/State Legislatures of the Dominion of India **161.** Trade winds blow from the b) polar high pressure a) equatorial low pressure c) subtropical high pressure d) subpolar low pressure **162.** In which State is Jawahar Tunnel located? a) Himachal Pradesh b) Jammu & Kashmir c) Uttaranchal d) Goa **163.** The type of note issue system followed in India is: a) Maximum fiduciary system b) Minimum reserve system c) Proportional fiduciary system d) Fixed fiduciary system **164.** The credit of discovering the sea route of India goes to the a) French b) Dutch c) Portuguese d) English

165.	The song 'Jana-Gana-Mana' composed by Rabindra Nath Tagore was first published in January 1912 under the title of					
	a) Jay He b) Rashtra Jagriti	c) Bharat Vidhata	d) Matribhoomi			
166.	Which has been the field of activity of Pt. Bhimsen Joshi?					
	a) Literature	b) Classical music	(Vocal)			
	c) Education	d) Journalism				
167.	Who has instituted the 'Moorti-Devi	Sahitya Puraskar'?	ahitya Puraskar'?			
	a) Ministry of HRD, Central Government					
	b) Sahitya Academy					
	c) Bharatiya Jnanapith Trust					
	d) Bharatiya Vidya Bhavan					
168.	Where did the dance form 'Mohini Attam' develop?					
	a) Manipur b) Kerala	c) Karnataka	d) Tamilnadu			
169.	Who was the first woman to become	the Prime Minister of	of a country?			
	a) Golda Meir	b) Margaret Thatch	er			
	c) Indira Gandhi	d) Sirimavo Bandaranaike				
170.	Who among the following first propounded the idea of Basic Education?					
	a) Jawahar Lal Nehru	b) Raja Ram Moha	n Roy			
	c) Mahatma Gandhi	d) Dayanand Saraswati				
171.	Which one of the following is an abr	normal constituent of	urine?			
	a) Creatinine b) Urea	c) Uric acid	d) Ketone bodies			
172.	Which one of the following cells pro	duces antibodies?				
	a) Eosinophils	b) Monocytes				
	c) Basophils	d) Lymphocytes				
173.	The Vitamin which helps in clotting of blood is:					
	a) A b) D	c) B	d) K			
174.	At very high altitude, the Red Blood	Corpuscles in the hu	man body will:			
	a) increase in size	b) decrease in size				
	c) increase in number	d) decrease in num	ber			
175.	Processing of a data file to reduce its size for storage on disk is termed:					
	a) Amplification b) Reduction	c) Compression	d) Rarefaction			

176.	On imprisonment in 1908 by the British, Bal Gangadhar Tilak was sent to						
	a) Andaman and Nicobar		b) Rangoon				
	c) Singapore	c) Singapore		d) Mandalay			
177.	Which two countr	ries are connected by	y an underwater tunnel?				
	a) England and Sp	pain	b) Malaysia and Sir	ngapore			
	c) England and Be	elgium	d) France and England				
178.	Which of the follo	owing is not associa-	ed with the UN Organisation?				
	a) ILO	b) WHO	c) FAO	d) ASEAN			
179.	When did India jo	oin the United Natio	ns?	ns?			
	a) 1945	b) 1947	c) 1950	d) 1954			
180.	A test tube baby n	means:					
	a) a baby grown in	n a test tube.					
	b) embryo fertilised in uterus and developed in test tube.						
	c) embryo fertilised and developed in uterus.						
1	d) fertilisation in vitro and then transplantation in the uterus.						
181.	Find out the mismatched pair.						
	a) Tea - Assam		b) Groundnut - Bih	ar			
	c) Coconut - Kera	la	d) Sugarcane - Utta	r Pradesh			
182.	182. Arrange the following in chronological order:						
	I. Dandi March		II. Simon Commiss	sion			
	III. Poona Pact	90	IV. Gandhi Irwin Pact				
	a) II, I, III, IV	b) II, I, IV, III	c) IV, III, I, II	d) IV, III, II, I			
183.	The deepest trench	h of the world 'The	Mariana Trench' is lo	ocated in the:			
	a) Indian Ocean	b) Atlantic Ocean	c) Arctic Ocean	d) Pacific Ocean			
184.	Green glands are	associated with					
	a) Reproduction	b) Excretion	c) Respiration	d) Digestion			
185.	Which one of the	e following cities l	has the maximum r	number of registered			
	vehicles on the road?						
	a) Mumbai	b) Kolkata	c) Delhi	d) Chennai			

186. Match the dams and the States in which they are situated:

State

Dam

	A. Hirakud	1. Chhattisgarh				
	B. Mettur	2. Orissa				
	C. Mahanadi	3. Karnataka	1/0.			
	D. Almatti	4. Tamilnadu	2101			
	A B C D	A B C D				
	a) 3 2 4 1	b) 2 4 1 3				
	c) 1 3 2 4	d) 4 1 3 2				
187.	Who is competent	to dissolve the Rajy	a Sabha?			
	a) The President	8	b) The Chairman, Rajya Sabha			
	c) The Lok Sabha		d) None			
188.	When did India w	in a gold medal in h	nockey at the Olympics last time?			
	a) 2000 Sydney	b) 1996 Atlanta	c) 1980 Moscow d) 1972 Munich			
189.	Of the following v	words in the Preamb	le of the Constitution of India, which was			
		gh the Constitution ((Forty Second Amendment) Act, 1976?			
	a) Socialist	b) Secular	c) Dignity d) Integrity			
190.	_	following is a marti				
	a) Kathakali		b) Bamboo dance of Meghalaya			
	c) Chhau of Mayu		d) Bhangra of Punjab			
191.	1 1	re dropped from the same height. Under				
	which of the following conditions do both reach the surface simultaneously? a) They must have the same volume					
		e the same density				
		•				
	c) They must have the same mass d) They must be dropped in vacuum					
192.			when the interest rate in the economy goes			
	Which from the following is not true when the interest rate in the economy goup?					
	a) Savings increas	ses	b) Lending decreases			
	c) Cost of product	tion increases	d) Return on capital increases			
	www.eenadupratibha.net					

www.eenadupratibha.net **193.** The stability of a pond ecosystem depends on a) micro-organisms and fishes b) micro-organisms and zoo planktons c) fishes and reptiles d) producers and consumers 194. The Bhilai Steel Plant has been established with the assistance of a) U.K. b) U.S.A. c) Russia d) Germany 195. Which from the following territories does not have a border with Arunachal Pradesh? b) Nagaland c) Bhutan d) Manipur a) Assam 196. Choclates can be bad for health because of a high content of b) Nickel a) Zinc c) Lead d) Cobalt **197.** What is the maximum permitted length of cricket bat? 32" b) 34" c) 36" d) 38" **198.** Which from the following rivers does not originate in Indian territory? a) Mahanadi d) Chenab b) Brahmaputra c) Ravi **199.** Arrange the following events in the chronological order: (A) Birth of Prophet Mohammed (B) Rise of Gupta dynasty in India

- (C) Completion of the Roman Colosseum
- (D) Peter the Great becomes the Czar of Russia
- a) C, B, A, D
- b) A, C, D, B
- c) B, D, C, A
- d) D, A, C, B

- **200.** Indian desert is called
- a) Gobi
- b) Sahara
- c) Thar
- d) Atacama

Key

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1-d; 2-d; 3-b; 4-c; 5-b; 6-c; 7-c; 8-b; 9-b; 10-b; 11-d; 12-a; 13-a; 14-b; 15-b; 16-a;
17-b; 18-b; 19-c; 20-a; 21-b; 22-d; 23-a; 24-c; 25-c; 26-b; 27-a; 28-d; 29-d; 30-d;
31-a; 32-a; 33-c; 34-c; 35-b; 36-c; 37-b; 38-b; 39-a; 40-a; 41-c; 42-d; 43-b; 44-b;
45-a; 46-c; 47-d; 48-b; 49-b; 50-c; 51-b; 52-b; 53-a; 54-a; 55-a; 56-d; 57-a; 58-a;
59-c; 60-c; 61-d; 62-a; 63-b; 64-b; 65-b; 66-b; 67-d; 68-c; 69-d; 70-b; 71-c; 72-b;
73-b; 74-c; 75-d; 76-c; 77-b; 78-a; 79-b; 80-b; 81-c; 82-a; 83-c; 84-b; 85-c; 86-a;
87-c; 88-d; 89-b; 90-a; 91-c; 92-c; 93-b; 94-d; 95-b; 96-b; 97-b; 98-a; 99-a; 100-d;
101-a; 102-a; 103-b; 104-b; 105-c; 106-a; 107-b; 108-c; 109-d; 110-b; 111-c; 112-d;
113-a; 114-c; 115-a; 116-d; 117-c; 118-b; 119-c; 120-c; 121-a; 122-a; 123-b; 124-c;
125-d; 126-b; 127-d; 128-a; 129-a; 130-a; 131-d; 132-c; 133-c; 134-b; 135-b.; 136-c;
137-a; 138-d; 139-b; 140-a; 141-c; 142-c; 143-c; 144-b; 145-a; 146-b; 147-a; 148-d;
149-b; 150-a; 151-c; 152-c; 153-d; 154-d; 155-c; 156-d; 157-c; 158-b; 159-d; 160-b;
161-c; 162-b; 163-b; 164-c; 165-c; 166-b; 167-c; 168-b; 169-d; 170-c; 171-d; 172-d;
. -c; 195-d; 1
173-d; 174-c; 175-c; 176-d; 177-d; 178-d; 179-a; 180-d; 181-b; 182-b; 183-d; 184-b;
185-c; 186-b; 187-d; 188-c; 189-c; 190-c; 191-d; 192-c; 193-d; 194-c; 195-d; 196-b;
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