SSC TEST SERIES

Directions: In question No. 1-6 find the related word/number from the given alternatives1. Video : Cassette :: computer : ? (a) Files (b) Floppy (c) Bits (d) Adit2. Glucometer : Blood Sugar :: Sphygomanometer : ? (a) Earthquake (c) Atmospheric Pressure (d) Specific Gravity3. Behaviour : Psychology :: Plant : ? (a) Plant (b) Botany (c)Zoology (d) Physiology (d) Immunity5. Desert : Mirage :: Ocean : ? (a) EL-Nino (b) Whale (c) Blizard (d) Hail6. 525 : 25 : 315 : ? (a) 10 (b) 15 (c) 5 (d) 25Directions : In questions No. 7-12, find the odd word/ number /letters /number pair from the given alternatives.7. (a) 3/7 (b) 7/2 (c) 4/13 (d) 13/168. (a) Marine (b) ocean (c) Navigation (d) Sea9. (a) ZYX (b) FED (c) NML (d) GHI10. (a) XZY (b) MON (c) PRQ (d) EAC11. (a) 1-5 (b) 4-20 (c) 5-65 (d) 7-3512. (a) 46-10 (b) 42-33 (c) 20-38 (d) 91-12Directions : In question No. 13-14, arrange the given words in a meaningful and ascending order the select the option indicating the correct order.13. 1. Venus 2. Earth 3. Mars 4. Mercury 5. Jupiter (a) 4.2,1,3,5 (b) 4.2,1,5,3 (c) 4.1,2,5,3 (d) 1.2,4,5,315. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ? ab_babc_ab_b_bcb_b (a) cbcaa (b) cabac (c) abcba (d) acaca16. A series is given, with one term missing. Choose the correct alternative from the given ones. ABEF, IJMN, ? (a) QRVU (b) ORUV (c) QRVW (d) OSVUDirections : In question No. 17-21 find the missing number from the given responses.17. 0, 6, 24, 60, 7, 210 (a) 117 (b) 119 (c) 120 (d) 15318. 19 <	(a) 91 (b) 68 (c) x goes 15 metre then again turns and walks 20 m position ? (a) 5 (b) 10 m (c A watch reads which direction v (a) North (b) No ections : In que ds, select the wo given word. PENULTIMATE (a) PEANUT (b) I PROCRASTINATI (a) PATTERN (b) ADOLESCENT (a) ENCLOSE (b) If SPANK is code (a) HTWOR (b) F	4 2 39 56 (d) 10 es North, right and etres. How c) 15 m (d 7.30. If the will the hou rth-West (estion No. ord which MINUTE (d E TRACTOR	9 1 65 4 then turn walks 10 v many m) 20 m he minute ur hand pe ur hand pe (c) North-I 24 to 26 cannot be	6 5 ? s ri mete ≥ h cin Eas 5, 1 ≥ fo
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3.Behaviour : Psychology :: Plant : ? (a) Plant (b) Botany (c)Zoology (d) Physiology23.4.Mitochondria : Energy :: DNA : ? (a) Genes (b) Reproduction (c) Locomotion (d) Immunity23.5.Desert : Mirage :: Ocean : ? (a) EL-Nino (b) Whale (c) Blizard (d) HailDir6. $525 : 25 : 315 : 7$ (a) 10 (b) 15 (c) 5 (d) 25Directions : In questions No. 7-12, find the odd word/ number /letters /number pair from the given alternatives.24.7.(a) 3/7 (b) 7/2 (c) 4/13 (d) 13/1625.8. (a) Marine (b) ocean (c) Navigation (d) Sea26.9. (a) ZYX (b) FED (c) NML (d) GHI26.10. (a) XZY (b) MON (c) PRO (d) EAC27.11. (a) 1-5 (b) 4-20 (c) 5-65 (d) 7-3527.12. (a) 46-10 (b) 42-33 (c) 20-38 (d) 91-1227.Directions : In question No. 13-14, arrange the given words in a meaningful and ascending order the select the option indicating the correct order.13. 1. Venus 2. Earth 3. Mars 4. Mercury 5. Jupiter (a) 4,2,1,3,5 (b) 4,2,1,5,3 (c) 4,1,2,5,3 (d) 1,2,4,5,314. 1. Pages 2. Book rack 3. Library 4. Books 5. catalogue (a) 2,5,4,3,1 (b) 1,5,4,3,2 (c) 1,4,2,5,3 (d) 1,2,4,5,315. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ? ab_babc_ab_b_bc_b (a) CRVU (b) ORVV (c) ORVW (d) OSVUDirections : In question No. 17-21 find the missing number from the given responses.17. 0, 6, 24, 60, ?, 210 (a) 117 (b) 119 (c) 120 (d) 15318.	and walks 20 m position ? (a) 5 (b) 10 m (c A watch reads which direction w (a) North (b) No ections : In que ds, select the wo given word. PENULTIMATE (a) PEANUT (b) H PROCRASTINATI (a) PATTERN (b) ADOLESCENT (a) ENCLOSE (b) If SPANK is code (a) HTWOR (b) H	etres. Hov c) 15 m (d 7.30. If ti will the hou rth-West (estion No. ord which MINUTE (d E	v many m) 20 m he minute ur hand pe c) North-I 24 to 26 cannot be	e h oin Eas 5, 1 e fo
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DirectionsIn questions No. 7-12, find the out words fulfible/letters /number pair from the given alternatives.24./letters /number pair from the given alternatives.25.(a) 3/7 (b) 7/2 (c) 4/13 (d) 13/1625.(a) Marine (b) ocean (c) Navigation (d) Sea26.9. (a) ZYX (b) FED (c) NML (d) GHI26.10. (a) XZY (b) MON (c) PRO (d) EAC27.11. (a) 1-5 (b) 4-20 (c) 5-65 (d) 7-3527.12. (a) 46-10 (b) 42-33 (c) 20-38 (d) 91-1227.Directions : In question No. 13-14, arrange the given words in a meaningful and ascending order the select the option indicating the correct order.28.13. 1. Venus 2. Earth 3. Mars 4. Mercury 5. Jupiter (a) 4,2,1,3,5 (b) 4,2,1,5,3 (c) 4,1,2,3,5 (d) 4,1,2,5,329.14. 1. Pages 2. Book rack 3. Library 4. Books 5. catalogue (a) 2,5,4,3,1 (b) 1,5,4,3,2 (c) 1,4,2,5,3 (d) 1,2,4,5,330.15. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ? ab_babc_ab_b_bcb_b (a) cbcaa (b) cabac (c) abcba (d) acaca31.16. A series is given, with one term missing. Choose the correct alternative from the given ones. ABEF, IJMN, ? (a) ORVU (b) ORUV (c) ORVW (d) OSVU33.Directions : In question No. 17-21 find the missing number from the given responses.33.17. 0, 6, 24, 60, ?, 210 (a) 117 (b) 119 (c) 120 (d) 15333.18.494499251636498164449925163649314931 <td>PENULTIMATE (a) PEANUT (b) I PROCRASTINATI (a) PATTERN (b) ADOLESCENT (a) ENCLOSE (b) If SPANK is code (a) HTWOR (b) F</td> <td>MINUTE (0 E</td> <td></td> <td></td>	PENULTIMATE (a) PEANUT (b) I PROCRASTINATI (a) PATTERN (b) ADOLESCENT (a) ENCLOSE (b) If SPANK is code (a) HTWOR (b) F	MINUTE (0 E		
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b. (a) Warne (b) Ocean (c) Wavigation (d) Sea26.9. (a) ZYX (b) FED (c) NML (d) GHI26.10. (a) XZY (b) MON (c) PRQ (d) EAC27.11. (a) 1-5 (b) 4-20 (c) 5-65 (d) 7-3527.12. (a) 46-10 (b) 42-33 (c) 20-38 (d) 91-1227.Directions : In question No. 13-14, arrange the given words in a meaningful and ascending order the select the option indicating the correct order.28.13. 1. Venus 2. Earth 3. Mars 4. Mercury 5. Jupiter (a) 4,2,1,3,5 (b) 4,2,1,5,3 (c) 4,1,2,3,5 (d) 4,1,2,5,329.14. 1. Pages 2. Book rack 3. Library 4. Books 5. catalogue (a) 2,5,4,3,1 (b) 1,5,4,3,2 (c) 1,4,2,5,3 (d) 1,2,4,5,330.15. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ? ab_babc_ab_bbcb_b31.(a) cbcaa (b) cabac (c) abcba (d) acaca31.16. A series is given, with one term missing. Choose the correct alternative from the given ones. ABEF, IJMN, ? (a) QRVU (b) QRUV (c) QRVW (d) QSVU32.Directions : In question No. 17-21 find the missing number from the given responses.33.17. 0, 6, 24, 60, ?, 210 (a) 117 (b) 119 (c) 120 (d) 15333.18.4981498164449925163610.214	 (a) PATTERN (b) ADOLESCENT (a) ENCLOSE (b) If SPANK is code (a) HTWOR (b) H 	TDACTO		
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Directions : In question No. 13-14, arrange the given words in a meaningful and ascending order the select the option indicating the correct order. 13. 1. Venus 2. Earth 3. Mars 4. Mercury 5. Jupiter (a) 4,2,1,3,5 (b) 4,2,1,5,3 (c) 4,1,2,3,5 (d) 4,1,2,5,3 14. 1. Pages 2. Book rack 3. Library 4. Books 5. catalogue (a) 2,5,4,3,1 (b) 1,5,4,3,2 (c) 1,4,2,5,3 (d) 1,2,4,5,3 15. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ? ab_babc_ab_b_bcb_b (a) cbcaa (b) cabac (c) abcba (d) acaca 16. A series is given, with one term missing. Choose the correct alternative from the given ones. ABEF, IJMN, ? (a) QRVU (b) QRUV (c) QRVW (d) QSVU Directions : In question No. 17-21 find the missing number from the given responses. 17. 0, 6, 24, 60, ?, 210 (a) 117 (b) 119 (c) 120 (d) 153 18. 49 81 644 49 9 3110 2 11 33	(a) HIWOR (b) r			HR
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the given letter series shall complete it ? ab_babc_ab_b_bcb_b (a) cbcaa (b) cabac (c) abcba (d) acaca 32. 16. A series is given, with one term missing. Choose the correct alternative from the given ones. ABEF, IJMN, ? 32. (a) QRVU (b) QRUV (c) QRVW (d) QSVU Directions : In question No. 17-21 find the missing number from the given responses. 33. 17. 0, 6, 24, 60, ?, 210 (a) 117 (b) 119 (c) 120 (d) 153 33. 18. 49 81 64 4 49 9 34.	Which of the follo	owing inte	rchange o	of s
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ABEF, DMM, ? (a) QRVU (b) QRUV (c) QRVW (d) QSVU Directions : In question No. 17-21 find the missing number from the given responses. 17. 0, 6, 24, 60, ?, 210 (a) 117 (b) 119 (c) 120 (d) 153 18. 49 81 44 49 25 16 36. 10 2	multiplication, 'C	' stands f	or divisio	n, '
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	stands for great	er than, 'I	F' stands	for
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	four alternatives	, only one	expression	on
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	letter symbol. Id	entify that	expression	on.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(a) 15C3B2A6E2	(b) 15B20	G5A4G4	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(c) 15C3B2D6B1	(d) 15B3[D4E6	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Identify the symb	ols to be i	nserted to	ית נ
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$?			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$24 \Delta 4 \Delta 5 \Delta 4$			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	(a) $\times + \times$ (b) $= \times$	+ (C) $\times + =$	= (d) + =	×
10 0 11	6 boys A, B, C,	D, E and	F are sitti	ng
	between A and (C, B is just	t right of	Сb
(a) 6 (b) 4 (c) 9 (d) 16	right end. Who is	s at the rig	ght end?	
19.	(a) \cup (b) \vdash (c) \cup	(C) B	ia in tha l	
2 14 21 28 35.	f is in the East C	oh directio	IS IN LNE I	101
3 21 28 35	(a) North (b) Fas	st (c) Sout	11 1 15 F : h-Fast (d`	150
4 2 35 2 36	(a) NOTIT (b) La:	towards a	n-Lasi (u)	, su ⊳tl
(a) 25 and 40 (b) 20 and 42 (c) 21 and 42 (d) 40 and 20	and walks 8 km	more Δft	ter that s	5 u he
(a) 55 and 49 (b) 26 and 42 (c) 21 and 42 (d) 49 and 26		Here, she	e meets	her
20.	another 8 km	on and th	ney both	st
	another 8 km. opposite direction	cing?	,	
24 39 ?	another 8 km. opposite direction would she be fact	uth (c) Eas	st (d) Wes	t
20 30 40 Dir	another 8 km. opposite direction would she be face (a) North (b) sou	ion no. 37	-38, two s	stat
(a) 44 (b) 49 (c) 50 (d) 56	another 8 km. opposite direction would she be fact (a) North (b) sourcections In question	ions, I, II,	, III and	IV.
21. two	another 8 km. opposite direction would she be face (a) North (b) sourcections In question wo/ four conclus	e true eve	n if they	see
_ · · · con	another 8 km. opposite direction would she be face (a) North (b) sourcections In question wo/ four concluss statements to be	Note Vou		
con	another 8 km. opposite direction would she be face (a) North (b) sourcections In question wo/ four concluss statements to be monly known face	icis. You	have to	de

ight and walks 20 metres, etres then again turns right eres is he from his original

ø

S

- | _()

hand points West, then in nt ?

st (d) South –East

from the given alternative ormed using the letters of

- E (d) LIME-TEA
- D (d) PAINTER
- (d) LEAST ROW is coded as
- I) HTORW
- and NATURE is coded as 68
- is written as
- 5200
- signs would make the given
 - (d) and \div
- subtraction, 'E' stands for 'D' stands for equal to, 'A' less than. In each of the is correct according to the
- nake the expression correct
- in a row facing west. D is out left of F. E is not at the
- rth of Z. If P is in the south
 - outh-West
- hen turns towards her left turns left again and walks friend coming from the op here. Which direction

tements are given followed You have to consider the em to be at variance from ecide which of the given atements.

SC TEST SERIES



- I. Some birds are clouds.
- II. Horse is a bird.
- Conclusions :
- I. some clouds are birds.
- II. Horse is not a cloud. (a) conclusion I follows (b) conclusion II follows
- (c) either conclusion I or II follows
- (d) Neither conclusion I nor II follows
- 38. Statements :
 - I. Ravi has five pens.

II. No one else in the class has five pens.

- Conclusions :
- I. All students in the class have pens.
- II. All students in the class have five pen each.
- III. Some of the students have more than five pens.
- IV. Only one students in the class has exactly five pens.
- (a) only conclusion I follows
- (b) only conclusion III follows
- (c) only conclusion II follows
- (d) only conclusion IV follows
- 39. Three positions of a dice are given. Find out which number is found opposite the number 2 in the given dice.



(a) 6 (b) 5 (c) 3 (d) 1

40. In the following figure O represents hard working, Δ represents sincere and D represents intelligent. Find out the hardworking who are intelligent but not sincere.



(a) 1 (b) 2 (c) 3 (d) 4

41. The below diagram shows the survey on a sample of 1000 persons with reference to their knowledge of English, Hindi and Marathi. How many knew only Hindi?



- (a) 85 (b) 175 (c) 78 (d) 200
- 42. In the below figure, the circle stands for employed, the square stands for social worker, the triangle stands for illiterate and the rectangle stands for truthful. Study the figure and answer the questions which region represents literate, employed people who are neither truthful nor social worker.



(a) 11 (b) 4 (c) 9 (d) 10

43. Identify the answer figure from which the piece given in question figure has been cut. Question figure



Answer figure



Directions : In question No. 44 and 45 which answer figure will complete the pattern in the question figure ?



Answer figure

刎			
	111)	ตาม	กาม
(a)	(b)	(c)	(d)

45. Question figure





Answer figure

\mathcal{Q}	(m)	R	a
(a)	(b)	(c)	(d)

46. From the given answer figures, select the one in which the question figure is hidden/ embedded. Question figure



Answer figure



47. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.





Answer figures



. C	
of,	
(a) regular reflection of light	(b) diffuse reflection of light
(c) retraction of light.	(d) total internal reflection of light
81. Which was the first elect	ronic computer constructed at the Moore
(C) ENIAC	(d) EDSAC
82. Which among the follow	ing standard protocols is the most widely
used by the internet?	
(a) HITP (b) ICP/IP	(c) SMTP (d) SLIP
83. The outer skin of most o	if the crustaceans are made up of a
carbonydrate. This carbonyd	Irate is
(a) cellulose	(b) galactose
(d) chitin	(d) starch
84. Rutherford's scattering e	experiment proved the presence of
(a) atoms in all matter	(b) electrons in atoms
(c) neutrons in atoms	(d) nucleus in atoms
85. When a metal is heated	in a flame, the electrons absorb energy
and jump to higher energy s	tate. On coming back to the lower energy
state, they emit light, which	we can observe in
(a) Raman Spectra (b) Absor	ption Spectra
(c) Emission Spectra	(d) Fluorescence
86. Blood pressure may be in	ncreased by the excessive secretion of
(a) Inyroxine	(b) Lestosterone
(c) Estradioi	(d) Estrol
87. The concept of "Green H	louse Gases" was postulated by
(a) Joseph Furier	(b) Abdul Kalam
(c) M.S Swaminathan	(d) Richael Carison
88. "Bhopal gas tragedy" 19	84is related to
(a) Aluminum Phosphide	(b) Methyl bromide
(c) Methyl Isocyanate	(d) Carbon dioxide
89. The particulate matter (F	PM-10) exhaled from the polluted
atmosphere is often filtered	out during the process of
(a) Cougning	(b) Sneezing
(a) Cougning (c) (a) and (b)	(b) Sneezing (d) Urination
 (a) cougning (c) (a) and (b) 90. Sarus crane is the state 	(b) Sneezing (d) Urination bird of
 (a) Cougning (c) (a) and (b) 90. Sarus crane is the state (a) Rajasthan (b) Method Packach 	 (b) Sneezing (d) Urination bird of (b) Uttar Pradesh (c) Wheel Presedue
 (a) Cougning (c) (a) and (b) 90. Sarus crane is the state (a) Rajasthan (c) Madhya Pradesh (d) The Teneris unless the state 	 (b) Sneezing (d) Urination bird of (b) Uttar Pradesh (d) West Bengal
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- (a) Eretrea
- (b) Ethiopia (c) Sudan (d) Nigeria
- 100. Where did Aurangzeb die?
- (a) Pune (b) Aurangabad
- (c) Ahmad Nagar (d) Mumbai
- QUANTITATIVE APTITUDE
- 101. The difference of a number consisting of two digits from the number formed by interchanging the digits is always divisible by (a) 10 (b) 9 (c) 11 (d) 6
- 102. The number 323 has (a) three prime factors (b) five prime factors (c) two prime factors (d) no prime factor
- 103. A tyre has 2 punctures. The first puncture alone would have made the tyre flat in 9 minutes and the second alone would have done it in 6 minutes. If air leaks out at a constant rate, how long does it take both the punctures together to make it flat?

(a)
$$1\frac{1}{2}$$
 minutes (b) $3\frac{1}{2}$ minute

(c)
$$3\frac{3}{5}$$
 minutes (d) $4\frac{1}{4}$ minutes

104. If 8 men or 12 boys can do a piece of work in 16 days, the number of days required to complete the work by 20 men and 6 boys is

(a)
$$5\frac{1}{3}$$
 (b) $6\frac{1}{3}$ (c) $8\frac{1}{3}$ (d) $7\frac{1}{3}$

- 105. A and B together can do a piece of work in 12 days which B and C together can do in 16 days. After A has been working at it for 5 days and B for 7 days, C finishes it in 13 days. In how many days B could finish the work ?
 - (a) 48 days (b) 24 days (c) 16 days (d) 12 days
- 106. Three circles of radius a, b, c touch each other externally. The area of the triangle formed by joining their centers is
 - (a) $\sqrt{(a+b+c)abc}$ (b) $(a+b+c)\sqrt{ab+bc+ca}$

(c)
$$ab + bc + ca$$

- (d) None of the above
- 107. If a metallic cone of radius 30 cm and height 45 cm, is melted and recast into metallic spheres of radius 5 cm, find the number of spheres.
 - (a) 81 (b) 41 (c) 80 (d) 40
- 108. Chords AB and CD of a circle intersect at E and are perpendicular to each other. Segments AE, EB and ED are of lengths 2 cm, 6 cm and 3 cm respectively. Then the length of the diameter of the circle in cm is

(a)
$$\sqrt{65}$$
 (b) $\frac{1}{2}\sqrt{65}$ (c) 65 (d) 65/2

- 109. For every set of 19 kites sold, a vendor gives 1 kite extra, free of cost. In order to give a discount of 10%, the number of extra kites he should give in a sale of 27 kites to the nearest integer is (a) 3 (b) 6 (c) 7 (d) 8
- 110. A ruby stone was bought for Rs. 1600 at Jaipur. A sum of Rs. 2400 was spent on making a ring with the ruby stone. It was advertised for sale at Mumbai for Rs. 7800. If a discount of 10% was given, then the % profit made as
 - (a) 55% (b) 68.5% (c) 75.5% (d) 80%
- 111. A shopkeeper buys an article for Rs. 450. He marks it at 20% above the cost price. Find the percentage discount given by him, if he sells the article for Rs. 496.80.

(a) 8% (b) 9% (c) 10% (d) 12%

- 112. The area of a circle is proportional to the square of its radius. A small circle of radius 3 cm is drawn within a larger circle of radius 5 cm. Find the ratio of the area of the annular zone to the area of the larger circle. (Area of the annular zone is the difference between the area of the larger circle and that of the smaller circle. (a) 9:16 (b) 9:25 (c) 16:25 (d) 16:27
- 113. A man invested 1/3 of his capital at 7%, 1/4 at 8% and the remainder at 10%. If his annual income is Rs. 561, the capital is (a) Rs. 5400 (b) Rs. 6000 (c) Rs. 6600 (d) Rs. 7200

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- 114. The average age of Ram and his two children is 17 years and the average age of Ram's wife and the same children is 16 years. If the age of Ram is 33 years, the age of his wife is (in years).(a) 31 (b) 32 (c) 35 (d) 30
- 115. A man's pension on retirement from service is equal to half the average salary during last 3 years of his service. His salary from 1-1-1983 is Rs. 380 per month with increment of Rs. 40 due on 1-10-83 and 1-10-84 and 1-10-85. If he retires on 1-1-86, what pension does he draw ?

(a) Rs. 205 (b) Rs. 215 (c) Rs. 225 (d) Rs. 230

- 116. A person bought 76 cows and sold 20 cows at 15% profit, 40 cows at 19% profit and remaining 16 cows at 25% profit and got a profit Rs. 6570 as a whole. The cost price of each cow is (a) Rs. 450 (b) Rs. 425 (c) Rs. 420 (d) Rs. 400
- 117. One side of a square is increased by 30%. To maintain the same area, the other side will have to be decreased by

(a)
$$23\frac{1}{13}$$
% (b) $76\frac{12}{13}$ % (c) 30 % (d) 15 %

118. Ram traveled 1200 km by air which formed $\left(\frac{2}{5}\right)$ of his trip. He

traveled one third of the trip by car and the rest by train. The distance (in km) traveled by train was (a) 480 (b) 800 (c) 1600 (d) 1800

- 119. A policeman goes after a thief who has 100 metres start, if the policeman runs a kilometer in 8 min, and the thief a km in 10 min, the distance covered by thief before he is over powered is (a) 350 m (b) 400 m (c) 320 m (d) 420 m
- 120. A man borrows Rs. 21000 at 10% compound interest. How much he has to pay equally at the end of each year, to settle his loan in two years?

(a) Rs. 12000 (b) Rs. 12100 (c) Rs. 12200 (d) Rs. 12300

121. If
$$\frac{4+3\sqrt{3}}{\sqrt{7+4\sqrt{3}}} = A + \sqrt{B}$$
, then $B - A$ is

(a) -13 (b)
$$2\sqrt{13}$$
 (c) 13 (d) $3\sqrt{3} - \sqrt{7}$

122. If the expression $x^2 + x + 1$ is written in the form $\left(x + \frac{1}{x}\right)$

then the possible values of q are

(a)
$$\pm \frac{1}{3}$$
 (b) $\pm \frac{\sqrt{3}}{2}$ (c) $\pm \frac{2}{\sqrt{3}}$ (d) $\pm \frac{2}{\sqrt{3}}$

123. If $a^2 - 4a - 1 = 0$, then value of $a^2 + \frac{1}{a^2} + 3a - \frac{3}{a}$ is

(a) 25 (b) 30 (c) 35 (d) 40
124. If
$$x = {}^{3}\sqrt{a} + \sqrt{a^{2} + b^{3}} + {}^{3}\sqrt{a} - \sqrt{a^{2} + b^{3}}$$
, then

 $x^3 + 3bx$ is equal to

(a) 0 (b) a (c) 2a (d) 1 125. If $x^2 - y^2 = 80$ and x - y = 8, then the average of x and y is (a) 2 (b) 3 (c) 4 (d) 5

126. If
$$\frac{1}{\sqrt[3]{4} + \sqrt[3]{2} + 1} = a^3\sqrt{4} + b^3\sqrt{2} + c$$
 and a,b,c are rational

numbers, then a+b+c is equal to

(a) 0 (b) 1 (c) 2 (d) 3
127.
$$\frac{1}{1+2^{a-b}} + \frac{1}{1+2^{b-a}}$$
 is
(a) a-b (b) b-a (c) 1 (d) 0
128. If $\frac{a}{b} = \frac{4}{5}$ and $\frac{b}{c} = \frac{15}{16}$, then $\frac{18c^2 - 7a^2}{45c^2 + 20a^2}$ is equal to

(a) 1/3 (b) 2/5 (c) 3/4 (d) 1/4

are 12 cm and 3 cm respectively. B and C are the points of contact of two tangents drawn to C_2 from a point A lying on the circle C_1 . Then the area of the quadrilateral ABOC is

129. Two circles with centers P and Q intersect at B and C. A, D are points

on the circles with centers P and Q respectively such that A, C, D are

collinear. If $\angle APB = 130^\circ$, and $\angle BQD = x^\circ$, then the value of x is

(a)
$$\frac{9\sqrt{15}}{2}$$
 sq. cm (b) $12\sqrt{15}$ sq. cm (c) $9\sqrt{15}$ sq. cm (d) $6\sqrt{15}$ sq. cm

131. I and O are respectively the in centre and circumcentre of a triangle ABC. The line AI produced intersects the circumcircle of Δ ABC at the point D. If \angle ABC=x°, \angle BID=y° and, \angle BOD=z°, then

$$\frac{z+x}{y} =$$

(a) 3 (b) 1 (c) 2 (d) 4

- 132. Rana drove 8 miles due west, then 6 miles due north, then 3 miles due east and then 6 more miles due north. The distance between his initial and final position is(a) 13 miles (b) 17 miles (c) 19 miles (d) 21 miles
- (a) 13 times (b) 17 times (c) 19 times (d) 21 times 133. ABCD is parallelogram. BC is produced to Q such that BC=CQ. Then (a) area (Δ BCP)=area (Δ DPQ)
 - (b) area (Δ BCP)>area (Δ DPQ)
 - (c) area (Δ BCP)<area (Δ DPQ)
 - (d) area (Δ BCP)+area (Δ DPQ) = area (ABCD)
- 134. In Δ ABC and Δ DEF, AB=DE and BC=EF. Then one can infer that Δ ABC $\stackrel{\square}{=} \Delta$ DEF, when

a)
$$\angle BAC = \angle EDF$$
 (b) $\angle ACB = \angle ED$

(c) $\angle ACB = \angle DFE$ (d) $\angle ABC = \angle DEF$

- 135. The length of the common chord of two circles of radii 30 cm and 40 cm whose centers are 50 cm apart, is (in cm)(a) 12 (b) 24 (c) 36 (d) 48
- 136. Two chords AB, CD of a circle with centre O intersect each other at P. ∠ ADP=23° and ∠ APC=70°, then the ∠ BCD is (a) 45° (b) 47° (c) 57° (d) 67°
- 137. If the interior angles of a five sided polygon are in the ratio of 2:3:3:5:5, then the measure of the smallest angle is
 (a) 20° (b) 30° (c) 60° (d) 90°

138. If $\sec \theta + \tan \theta = \sqrt{3}(0^{\circ} \le \theta \le 90^{\circ})$, then $\tan 3\theta$ is

(a) undefined (b)
$$\frac{1}{\sqrt{3}}$$
 (c) considered as infinity (d) $\sqrt{3}$

139. If sin (60°- θ) = cos (ψ -30°), then the value of tan (ψ - θ) is (assume that θ and ψ are both positive acute angles with θ < 60° and ψ >30°)

(a)
$$\frac{1}{\sqrt{3}}$$
 (b) 0 (c) $\sqrt{3}$ (d) 1

140. The value of

 $(1 + \cot \theta - \csc \theta)(1 + \tan \theta + \sec \theta)$ is equal to

141. If $\tan \theta + \cot \theta = 2$, then the value of $\tan^n \theta + \cot^n$

 $\theta\,(0^{^\circ} < \theta < 90^{^\circ})$ and n is an integer) is

(a) 2 (b) 2^n (c) 2n (d) 2^{n+1}

142. A pole stands vertically, inside a scalene triangular park ABC. If the angle of elevation of the top of the pole from each corner of the park is same, then in Δ ABC, the foot of the pole is at the (a) centroid (b) circumcentre (c) incentre (d) orthocentre

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149. Find the percentage decrease in income from 2001 to 2002 143. If $\frac{\sin\theta}{x} = \frac{\cos\theta}{y}$, then $\sin\theta - \cos\theta$ is equal to (a) 50 (b) 33 (c) $37\frac{1}{2}$ (d) data inadequate (a) x - y (b) x + y (c) $\frac{x - y}{\sqrt{x^2 + y^2}}$ (d) $\frac{y - x}{\sqrt{x^2 + y^2}}$ 150. If the income shows positive growth in every year throughout period (2000-2005), then in how many years the expenditure shows a 144. The below bar graph shows the marks obtained by a student in an positive growth? examination. What is the average marks obtained by the student ? (a) 5 (b) 3 (c) 4 (d) 2 ENGLISH COMPREHENSION Directions : (151-155): In the following guestions, some parts of the sentences have errors and some have none. Find out which part of a 40 Warks 20 Warks sentence has an error. The number of that part is your answer. If a sentence is free from error, then your answer is (4). i.e. No error. 151. Our history can be seen as a long evolutionary dialectical development O (a)/in which there have been (b)/ a painstaking forging of rational Social Science English Hindi Math and moral self (c)/No error (d). Studies 152. Our knowledge of history does not come to (a)/ our help and some (a) 55 (b) 56 (c) 57 (d) 58 times we even fail to (b)/ remember who invented America(c)/ No 145. Study the bar graph carefully and answer the following questions. error (d). 153.My grandfather owns(a)/fifty acre(b)/ of wetland (c)/ No error (d) 154.Belgiun chocolate is considered (a)/ by many to be Number of -amilie finer(b)/than any others in the World(c)/ No error (d) 20 155. Indian scientists are in no way (a)/ inferior than (b)/ any other scientist in the world. (c)/ No error (d) Directions (156-160): In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are Member of Families suggested for each question. Choose the correct alternative out of the four Which type of family is the most common? as your answer. (a) 2 members (b) 3 members (c) 4 members (d) 5 members 156.We didn't_____ the programme to be such a huge success. Directions : The pie chart shows the expenditure of a country on various (a) Except (b) Expect (c) Access (d) Accept sports during a particular year. Study the graph and answer the question 157.We should _____opportnities as they arise. no. 146 to 148. (a) Cease (b) Size (c)Sneeze (d)Seize 158. The students aren't prepared _____ the examination. (c) To take Football (a) To listen (b) to work (d) To give Cricket 159. The government, in a bid to make Bihar, a preferred investment 810 destination, has _____major schemes to create infrastructure at Hockey different stages. Basket 50° (a) Opposed (b) Opened (c) Pushed (d)Launched Ball 160.1 suffer from no_____ about my capabilities. thers Tennis (a) Doubts (b)Halluciantions (c) Imaginations (d)Illusions Golf Directions: (161-165): In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the 146. If the total amount spent on cricket and hockey together is Rs. given word as your answer. 80,000, the total amount spent on sports is 161.Inadvertent (a) Rs. 1,00,000 (b) Rs. 2,00,000 (c) Rs. 2,50,000 (d) Rs. 3,00,000 (a) Unexpected (b) Unintentional 147. How much percent more is spent on Hockey than that on Golf ? (c) Undisturbed (d) Ignorant (a) 27% (b) 35% (c) 37.5% (d) 75% 162.Fortitude 148. How much percent less is spent on football than that on cricket ? (a) Courage (b) Protection (c) Safety (d) Similarity (a) $22\frac{2}{9}\%$ (b) 27% (c) $33\frac{1}{3}\%$ (d) $37\frac{1}{2}\%$ 163. Duplicity (a) Artlessness (b) Deceit (c) Cleverness (d) Repetition Directions : Study the following graph and answer the question No. 149 164.Fidelity and 150. (a)Resourcefulness (b) Strength Company Profile (c) Weakness (d)Faithfulness 2.00 (2000-2005) 165.Vanguard ratio of Income to expenditure 1.75 (a) Officer (b) Flag bearer (c) Pioneer (d) Race driver 1.50 Directions (166-170): In the following questions, choose the word opposite in meaning to the given word as your answer. 1.25 166.Taciturn 1.00 (a) Silent (b) Talkative (c) Immense (d) Judge 0.75 167.Artisan 0.50 (a) Skilled sculptor (b)learned person (c) Ignorant villager (d) Unskilled labour 0.25 168.Amicable 2000 2001 2002 2003 2004 2005 (a) Friendly (b) Haughty (c) Unpleasant (d) Hostile Year. 169.Mitigate

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(a) Aggravate (b) Allay (c) Alleviate 170 Aversion Question Nos 191-195 (a) Awareness (b) Hatred (c)Liking (d) Avoidance If this is so, if to read a book as it should be read calls for the rarest Direction (171-175): In the following questions, four alternatives are given gualities of imagination, insight and judgement. You may perhaps conclude that literature is a very complex art and that it is unlikely that we for the Idiom/ phrase printed in bold in the sentence. Choose the shall be able, even after a life time of reading, to make any valuable alternative which best expresses the meaning of the idiom/ phrase as your contribution to its criticism. We must remain readers, we shall not put on answer 171. He was out of spirits for a few days after his defeat. the further glory that belongs to those rare beings who are also critics. 191. What is the opinion of most of the people about literature? (a) Gloomy (b) Sober (c) Lifeless (d) Uninvolved (a) That it is not an easy one to contribute anything. 172. When the family in the next house packed off at midnight, I began to (b) That it is to some extent difficult to understand. smell a rat. (c) That no contribution is necessary for literature. (a) To suspect a trick (b) To misunderstand (d) That it is very easy to understand (c) To see hidden meaning (d) To smell a bad smell 173.At first, there was a show of resistance to the new rule issued by the 192. The antonym of conclude is Government, but the movement had no backbone and speedily (a) Commence (b) Exclude (c) End (d) Include collapsed 193.According to the author (a) Justification (b) Impact (c) Strength (d) Support (a) It is not possible for most of us to contribute anything for criticism 174. The cops were on their toes throughtout the day. (b) It is possible to do something (a) Eager (b)Alert (c) Harried (d) Quick (c) It is not even easy to under stand literature 175. The minister assured the agitating employees that he would look (d) Most of the people can contribute to criticism of literature into their demands sympathetically. 194. The author feels that we cannot have the greatness of (a) Discuss (b) Watch (c) Grant (d) Examine (a) Writers (b) Critics (c) Publishers (d) Readers Directions (176-180): In the following questions, a part of the sentence 195. What are the qualities required for reading a book? is printed in bold. Below are given alternatives to the bold part at (1), (2) (a) Proper judgement (b) Imagination and (3) which may improve the sentence. Choose the correct alternative. (c) Imagination, insight and judgement In case no improvement is needed. Your answer is (4). (d) None of the above 176. The prolific writer's work is published every year. Passage – II (a) Exquisite (b) Didactic (c) Great (d) No improvement Question Nos. 196-200 177. Those plucking flowers are liable for punishable. These days not even many politicians deny that the oceans are ill. (a) Are liable for punishable (b) Are liable for punishing Protecting the health of coastal waters is now a matter of national policy in (c) Are liable to be punished (d) Are viable for punishment dozens of countries including the U.S. and world leaders are beginning to 178. His lust for power brought about his downfall. prescribe a revolutionary remedy that conservationists have been (a) Intense desire (b)Desire for power promoting for years: marine planning and zoning. (c) Desire for sex (d) No improvement The Idea is a natural extension of management policies that have guided 179.I'll meet the raging of the skies, but not an angry father. the development of cities and landscapes for nearly a century. Zoning (c) Anger advocates envision a mosaic of regional maps in which every watery (a) Sunshine (b) Rain (d) No improvement 180. When we see black smoke near the wing of the plane, we were space on the planet is designated for a particular purpose. Drilling and mining would be allowed only in certain parts of the ocean; fishing in certain that disaster was imminent . others. The most critically threatened areas would be virtually off-limits. (a) When we were seeing (b) When we saw Whereas people can easily find maps telling them what they can do where (c) When we had seen (d) No improvement on land, the marine realm is a hodge-podge of rules emanating from an Directions (181-185): In the following guestions, out of the four army of agencies, each one managing a single use or symptom. alternatives choose the one which can be substituted for the given 196.Marine planning and zoning is a _____ to protect the coastal waters. words/sentence. (a) Conservationists' discovery 181. Government by a small group of all powerful persons (b)Marine project (a) Monarchy (b) Democracy (c) Anarchy (d) Oligarchy (c) Revolutionary remedy 182.One indifferent to art and literature is (d) National policy of the US (a) Critic (b) Philistine (c) Scholar (d) Aromantic 197. These days _____that the oceans are not in good health. 183.0pen to injury or criticism (a) Most of the politicians agree (b) All politicians agree (a) Vulnerable (b) Naïve (c) Sensitive (d) Invincible (c) Nobody agrees (d) Everbody agrees 184. One who collects coins as a hobby 198.'Marine realm' is a hodge-podge of rules means (a) Ornithologist (b) Statistician (c)Numismatist (d) Philatelist (a) Seas need to be cleaned 185. A narrow piece of land connecting two large masses of land (b) There are no uniform laws governing the seas. (a) Isthmus (b) continent (c) Gulf (d) Peninsula (c) there is total anarchy Directions (186-190): In the following questions, there are foru (d) Critical areas are not being looked after properly different words out of which one is correctly spelt. Find the correctly spelt 199.Seazoning is all about_ word as your answer. (a) Drilling and sea mining. (b) Conserving the environment 186.(a) Beneficil (b) Beneficial (c) Benifical (d) Benificial 187.(a) Averisious (b) Avaricious (c) Avaricious (c) Banning fishing in the sea (d) Averisious (d) Dividing watery space for specific purposes 188.(a) Internaly (b) Coldly (c)Fortunetely (d)Uniquely 189.(a) Affectionately (b)Afectionately (c) Affectionnality(d) Affactionately 200.'Conservationist' means (b) One who looks after others (a) A marine engineer. 190.(a) Apprehension (b) Apprihension(c) Apprihension (d) Apprehenson (c) One who prevents something from destruction Directions (191-200): In the following questions, you have two brief passages with 5 questions following each passage. Read the passages (d) A proficient speaker carefully and choose the best answer to each question out of the four alternatives and.