

SSC CHSL (10+2) EVENING EXAM PAPER 1-11-2015**DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO****DE - 2015****Time Allowed: 2 Hours (for V. H. Candidates and Candidates Suffering from Cerebral Palsy: 2 Hrs 40 min)****Read the following instructions carefully before you begin to answer the question****Maximum Marks: 200****INSTRUCTION TO CANDIDATES**

1. This booklet contains 200 questions in all comprising the following four parts:

Part – I : General Intelligence	(50 Questions)
Part – II: English Language	(50 Questions)
Part – III: Quantitative Aptitude	(50 Questions)
Part – IV: General Awareness	(50 Questions)
2. In questions set bilingually in English and Hindi language, in case of discrepancy, the English version will prevail.
3. All questions are compulsory and carry equal marks.
4. The paper carries negative marking 0.25 marks will be deducted for each wrong answer.
5. **Before you start to answer the questions you must check up this booklet and ensure that it contains all the pages (1-24) and sell that no page is missing or repeated. If you find any defect in this booklet, you must get it replaced immediately.**
6. You will be supplied the answer sheet separately by the invigilator. You must complete and code the details of Name, Roll Number, Ticket Number and Test form Number in the Answer Sheet carefully. You must also put your signature and Left – Hand thumb impression on the Answer Sheet at the prescribed place before you actually start answering the questions. These instructions must be fully complied with, failing which, your answer sheet will not be evaluated and you will be awarded ‘ZERO’ mark. **(V. H. / Cerebral Palsy candidates will have to ensure that these details will be filled in by the scribe. However, all V.H. / Cerebral Palsy candidates must put their Left – hand thumb impression at the space provided in the Answer Sheet. Those V. H. / Cerebral Palsy candidates who can sign should also put their signatures in addition to thumb impression.**
7. Answers must be shown by completely blackening the corresponding circle on Side – II of the Answer Sheet against the relevant question number by **Black / Blue Ball – point pen** only. Answers which are not shown by black / blue ball point pen will not be awarded any mark.
8. A machine will read the coded information in the OMR Answer Sheet. In case the information is incomplete / different from the information given in the application form, such candidate will be awarded ‘ZERO’ mark.
9. The answer sheet must be handed over to the Invigilator before you leave the Examination Hall.
10. **Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.**
11. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page no. 24), which you should read carefully before actually answering the questions.
12. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and other s easy. Do not spend too much time on any question.
13. In lieu of question Nos. 44 to 55 and 142 to 150, relating to figural portions, alternate questions have been provided to be attempted by V. H. / Cerebral Palsy candidates only.)
14. **No rough work is to be done on the Answer Sheet. Space for rough work has been provided below the questions in Part I and Part III of this booklet.**

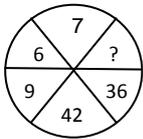
“Mobile phones and wireless communication devices are completely banned in the examination halls / rooms. Candidates are advised not to keep mobile phones / any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.”

SSC CHSL (10 + 2) 01 NOVEMBER 2015 EVENING SHIFT

GENERAL INTELLIGENCE

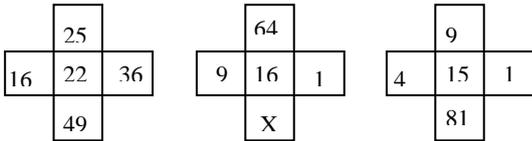
Directions: Select the missing number from given responses

1.



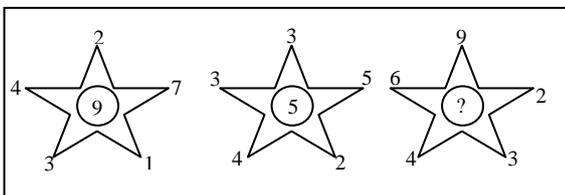
- (a) 54 (b) 78 (c) 34 (d) 24

2.



- (a) 4 (b) 2 (c) 16 (d) 32

3.



- (a) 11 (b) 10 (c) 7 (d) 4

4. 5 6 7 8
10 18 21 40
7 9 10 ?

- (a) 13 (b) 11 (c) 20 (d) 15

Directions (5-7): A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

5. 127, 131, 137, 139, 2, 151, 157, 163, 167.
(a) 141 (b) 143 (c) 147 (d) 149
6. 1, 1, 2, 3, 5, 2, 13, 21
(a) 6 (b) 8 (c) 7 (d) 9
7. 361, ?, 169, 121, 49, 25
(a) 289 (b) 196 (c) 256 (d) 324

Directions (8-16): Find the odd word/letters/number from the given alternatives

8. (a) aacdff (b) ggijkk (c) mmopqq (d) qqstuu
9. (a) 6 (b) 15 (c) 12 (d) 17
10. (a) 853 (b) 734 (c) 532 (d) 751
11. (a) Solid (b) Plump (c) Fathom (d) Thick
12. (a) Whim (b) Quirk (c) Caprice (d) Foible
13. (a) FUEV (b) QPSR (c) VUXW (d) YXWV
14. (a) RQP (b) HGF (c) NPR (d) DCB
15. (a) IJKL (b) PONM (c) HGFE (d) DCBA
16. (a) 3463 (b) 5725 (c) 6514 (d) 8948

17. Arrange the following words as per the reserve order in a dictionary.

1. multitude 2. multinational 3. multiplier
4. multinomial 5. multilingual
(a) 1 3 4 2 5 (b) 5 4 3 2 1 (c) 4 5 3 2 1 (d) 1 3 2 4 5

Directions (18-20): Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

18. oopqop_ qoo_ qo_oqo_pq
(a) opop (b) poop (c) oppo (d) popo

19. _ babba_a_ _

- (a) babbb (b) baaab (c) ababb (d) bbaba

20. a_baa_baa_ba

- (a) bab (b) bbb (c) bba (d) aab

21. **Directions:** Which conclusion is true with respect to the given statements

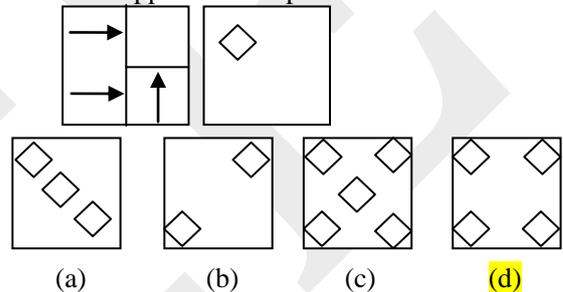
Statements:

1. All squares are rectangles.
2. All rectangles are polygons.

Conclusion:

- (a) Square is a polygon (b) Square is not a rectangle
(c) Square is not a polygon
(d) Square is a rectangle and polygon

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



Directions (23-31): Select the related word/letters/number from the given alternatives.

23. Vocation: Holiday :: Vocation: ?
(a) Money (b) Career (c) Degree (d) Pleasure
24. 32: 28 :: 160: ?
(a) 80 (b) 120 (c) 140 (d) 110
25. SNAKE: VQDNH :: CRADLE :: ?
(a) FUDGOH (b) EVFGOF (c) EUDGOH (d) FVDGPH
26. FE: HG :: ML: ?
(a) QP (b) PO (c) ON (d) JI
27. $\sqrt{AFI} : 13 :: \sqrt{DDA} : ?$
(a) 21 (b) 24 (c) 22 (d) 12
28. Prech: Fresh water :: ? : Salt water
(a) Crocodile (b) Snake (c) Cod (d) Frog
29. 196: 256 :: ? : 400
(a) 144 (b) 452 (c) 324 (d) 204
30. 414: 636 :: 325: ?
(a) 414 (b) 222 (c) 636 (d) 547
31. Eyes : Tears :: _ : _
(a) Hunger: Bread (b) Sea: Water (c) Heart: Artery
(d) Volcano: Lava

32. Six faces of the dice are A, B, C, D, E and F. A is adjacent to B. B is adjacent to D but not C. E is adjacent to D and F. What is the side opposite to A?

- (a) C (b) F (c) D (d) E

33. Ali had Rs. 320. He spent $\frac{3}{4}$ of it to buy a watch. Of the remainder, he used $\frac{1}{8}$ of it to buy a pen. How much money is left?

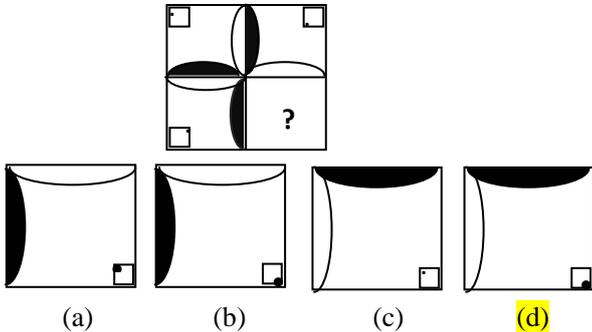
- (a) 70 (b) 120 (c) 90 (d) 100

34. Karan has a brother 'prem' and a sister 'Neesha'. Karan's wife is 'Naj' and has a daughter 'Naksha'. Naksha got married with Neesha's son Akbar and has a baby girl

‘Riya’. What is relation between ‘Naksha’ and ‘Neesha’?

- (a) Niece and Aunt (b) Mother and grand daughter
(c) Sister (d) Mother and daughter

35. Which answer figure will complete the pattern in the question figure?



Directions (36-37): From the given alternative words select the word which cannot be formed using the letters of the given word:

36. Correspondence

- (a) Correspond (b) Condense (c) Respondent
(d) Respond

37. Calculate

- (a) Cat (b) Team (c) Tea (d) Late

38. If ‘Stress’ is coded as Rstress. Then ‘pulse’ will be coded as

- (a) Fulse (b) Rulse (c) Qulse (d) Oulse

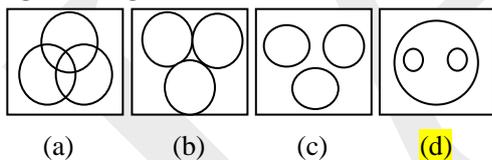
39. If ARMS equal 1234 then MARS will equal to:

- (a) 4213 (b) 4321 (c) 1243 (d) 3124

40. If Sita walks 10 Km towards West, then turned towards South and walked 10 Km, then turned East walked 10 Km, and turned North walked 10 Km. How far she is from starting point?

- (a) 0 Km (b) 40 Km (c) 20 Km (d) 10 Km

41. Identify the diagram that best represents the relationship among classes given below:



42. 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 in two matrices given below. The columns and rows of Matrix-1 are numbered from 0 to 4 and that of Matrix-2 are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., ‘M’ can be represented by 01,10 etc., and ‘R’ can be represented by 58,85 etc. Similarly, you have to identify the set for the word ‘NOW’

	0	1	2	3	4		5	6	7	8	9
0	I	M	W	S	Q	5	O	A	D	R	N
1	M	W	S	Q	I	6	A	D	R	N	O
2	W	S	Q	I	M	7	D	R	N	O	A
3	S	Q	I	M	W	8	R	N	O	A	D
4	Q	I	M	W	S	9	N	O	A	D	R

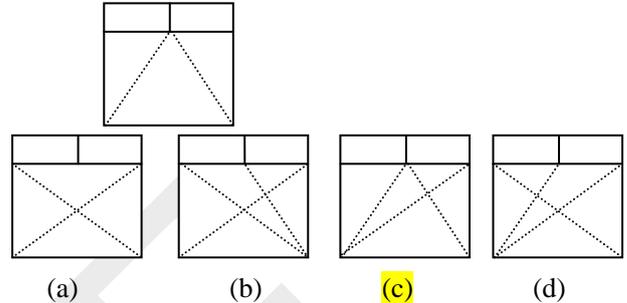
- (a) 86, 58, 11 (b) 55, 78, 11 (c) 95, 55, 34 (d) 95, 67, 02

43. Arrange the following words as per order in the dictionary.

1. Slit 2. Silicon 3. Silicate 4. Silken

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

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



45. If + stands for division; x stands for addition; - stands for multiplication, ÷ stands for subtraction, which of the following is correct?

(a) $25 \times 3 - 7 \div 8 + 12 = 18$

(b) $25 + 3 \times 7 - 8 \div 12 = 10.89$

(c) $25 - 3 \div 7 \times 8 + 12 = 132$

(d) $25 \div 3 \times 7 - 8 + 12 = 19.3$

- (a) c (b) b (c) d (d) a

Answer wrong

46. **Directions:** In the question two statements are given each followed by two conclusions, I and II. You have to consider the statements to be at variance from commonly known facts. You have to decide which of the conclusions, if any, follows from the given statements.

Statement:

1. Some clerks are poor
2. A is poor

Conclusion:

- I- A is clerck II- A has a large family

(a) Both conclusions I and II follows

(b) Only conclusion II follows

(c) Only conclusion I follow

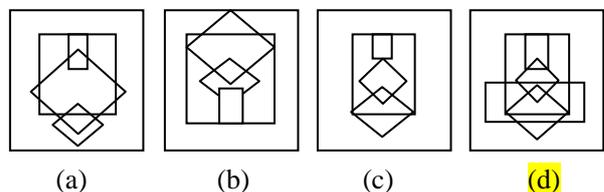
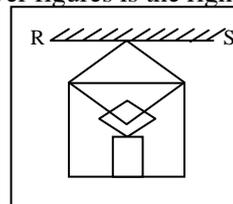
(d) Neither conclusion I nor conclusion II follows

47. Which one of the given responses would be a meaningful order of the following in ascending order?

1. atom 2. matter 3. molecule 4. electron

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

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



49. Laxmi went 10 Km West from my house, then turned left and walked 20 Kms. She then turned East and walked 25 Kms & finally turning left covered Kms. How far was she from my house?

- (a) 5 Kms (b) 10 Kms (c) 40 Kms (d) 15 Kms

50. Insert the arithmetical operations in the following numerical figure-
4_3_4 = 48

- (a) + + (b) × + (c) + - (d) × ×

ENGLISH LANGUAGE

Directions: In the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks.

PASSAGE:

Past I was understanding our present world in a II better way. If we know III our ancestors lived or IV the wars were waged, we can understand the today's world V and get ideas for a VI future. What appears to VII as wrong today could have been right VIII. It is also interesting to know how IX in the past X the life of humans.

51. (a) I- help (b) I-helps (c) I- helped (d) I-is helping
52. (a) II-more (b) II-just (c) II-much (d) II-more
53. (a) III-how (b) III-where (c) III-why (d) III-when
54. (a) IV- which (b) IV-when (c) IV-why (d) IV-how
55. (a) V- well (b) V-best (c) V-betterment
(d) V-better
56. (a) VI- fairest (b) VI-fairy (c) VI-fair
(d) VI-fairer
57. (a) VII-they (b) VII-us (c) VII-him (d) VII-them
58. (a) VIII-earliest (b) VIII-later (c) VIII-early
(d) VIII-earlier
59. (a) IX- inventions (b) IX-inventors
(c) IX-adventures (d) IX-inventing
60. (a) X- improves (b) X-improve (c) X-improved
(d) X-improvement

Directions: Some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken circle corresponding to the appropriate option. If a sentence is free from error, blacken the circle corresponding to "No Error" option in the Answer Sheet.

61. When the workers threatened to go on a strike, the mill owner declared a lay off on his mill.
(a) No error (b) declared a lay off on his mill.
(c) go on a strike, the mill owner
(d) When the workers threatened to
62. The people gathered at the funeral to pay respect.
(a) The people gathered (b) to pay respect.
(c) at the funeral (d) No error
63. Iodine deficiency is an easy and inexpensive nutrient disorder to prevent.
(a) No error (b) nutrient disorder to prevent
(c) is an easy and expensive (d) Iodine deficiency
64. Whoever assume his statement true is foolish.
(a) is foolish (b) No error
(c) his statement true (d) Whoever assumes

Directions (65-68): Out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

65. Desultory
(a) Diminish (b) Forsake (c) Frugal (d) Random
66. Jealous
(a) Greedy (b) Lustful (c) Envious (d) Proud
67. Quest
(a) Search (b) Decision (c) Test (d) Trial
68. Diligent
(a) Energetic (b) Modest (c) Intelligence (d) Industrious

Directions (69-72): The 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 the four and indicate it by blackening the appropriate circle in the Answer Sheet.

69. The cold breath of autumn had ____ the ivy leaves from the vine and the branches remained almost bare.
(a) stricken (b) struck (c) strike (d) striking
70. You take a decision. The ball is in ____ now.
(a) your net (b) your court (c) your pocket
(d) your garden
71. We can ____ right and wrong
(a) distinguished for (b) distinguish between
(c) distinguish from (d) distinguish by
72. He is a man of ____ simplicity.
(a) child (b) childish (c) childlike (d) childless

Directions (73-76): Choose the word opposite in meaning to the given word mark it in the Answer Sheet.

73. Defile
(a) purify (b) yield (c) describe (d) repair
74. Desist
(a) hope (b) assign (c) continue (d) request
75. Sterile
(a) fertile (b) infertile (c) barren (d) dense

76. Prudent
(a) miserly (b) foolish (c) careless (d) strange

Directions (77-80): Out of the four alternatives, Choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle in the Answer Sheet.

77. Introductory part or lines to a discourse or play
(a) Monologue (b) Epilogue (c) Blurb (d) Prologue
78. A handsome man
(a) Tycoon (b) Adonis (c) Debonair (d) Prologue
79. Intentional damage to arrest production
(a) Modus operandi (b) Nemesis
(c) Sangfroid (d) Sabotage

80. A cinema show held in the afternoon.
(a) Entertainment (b) Play (c) Matinee (d) Premiere

Directions (81-84): Four alternatives are given for the Idiom/Phrase underlined. Choose the alternative which best express the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

81. To take after
(a) to write down (b) to resemble
(c) to cheat (d) to remove
82. The jury is out
(a) No decision has been reached
(b) The jury has taken a break between hearings.

- (c) The entire jury decides to stay out of the proceedings.
 (d) A jury member is absent.

83. Have a finger in every pie

- (a) to be efficient (b) to be greedy
 (c) to be meddlesome (d) to be quarrelsome

84. She paid a flying visit to Mumbai to see her ailing father.

- (a) a surprise visit (b) a very long visit
 (c) a very short visit (d) went by aeroplane

Directions (85-88): The 1st and the last part of the sentence/passage are numbered 1 and 6. The rest of the sentence/passage is split into four parts are not given in their proper order. Read the sentence/passage and found out which of the four combinations is correct. Then find the correct answer and indicate it by blackening the appropriate circle in the Answer Sheet.

85. 1. Glorious tributes were paid

- P- who after fighting a battle with cancer,
 Q- the original superstar of Bollywood
 R- passed away last month
 S- to the legendary Rajesh Khanna,
 6. at his residence in Mumbai.

- (a) SRPQ (b) SQPR (c) QSPR (d) SQRP

86. 1. Though the government

- P- the growth of population
 Q- has undertaken a series of plans
 R- and for raising the standard of living of the people
 S- for economic development
 6. has upset all the plans.

- (a) SRPQ (b) QSRP (c) SPQR (d) QPRS

87. 1. What gives some persons

- P- torturing physical pain
 Q- after experiencing
 R- after the loss of a precious loved one
 S- the power to fight on
 6. day after day?

- (a) PQRS (b) PSQR (c) PQSR (d) SRQP

88. 1. A volcano is an opening or rupture in a planet's surface.

- P- Erupting volcanoes can pose many hazards.
 Q- This opening allows magma, ash and gases to escape from below the surface.
 R- Volcanic ash can be a threat to aircraft.
 S- Volcanoes are generally found where tectonic plates are diverging or covering.
 6. Historically, So-called volcanic winters have caused catastrophic famines.

- (a) SQRP (b) QSPR (c) SPQR (d) RSPQ

Directions (89-92): Four words are given in each question, out of which only one word is correctly spelt world and mark your answer in the Answer Sheet.

89. (a) Ingenous (b) Ingenious (c) Ingenius (d) Ingeneous

90. (a) Plegiarist (b) Plagiarist (c) Plagraist (d) Plagearist

91. (a) Acomodation (b) Accommodation (c) Accomodation (d) Accommodation

92. (a) Purritaniccal (b) Puritannical (c) Puritanical (d) Purritanical

Directions (93-96): A sentence/a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct

alternative. In case no improvement is needed choose "No improvement".

93. I'm really sorry but I haven't got much money myself.

- (a) I'm really sorry but I not have much money myself.
 (b) I'm really sorry but I have very few money myself.
 (c) I'm really sorry I have lesser money myself.
 (d) No improvement.

94. Both of them are good, but this is the best of the two.

- (a) good (b) No improvement (c) better (d) much better

95. He said, 'Let the show begin'.

- (a) No improvement (b) 'Let the show begin'.
 (c) 'Let's the show begin' (d) 'Let the show to begin'

96. The museum's collection includes artefacts dated back to prehistoric times.

- (a) date backs to (b) No improvement
 (c) dating back to (d) date back to

Directions (97-98): A sentence has been given in Direct/Indirect. Out of the four alternatives suggested, select the one which best express the same sentence in Indirect/Direct and mark your answer in the Answer Sheet.

97. My brother told me that he would buy me a notepad the next day.

- (a) My brother said to me, "I would buy you a notepad tomorrow."
 (b) My brother "I am going to buy you a notepad tomorrow."
 (c) My brother said to me, "I will be buying you a notepad tomorrow."
 (d) My brother said to me, "I shall buy you a notepad tomorrow."

98. The peon said to his officer, "Please forgive me".

- (a) The peon requested his officer to forgive him.
 (b) The peon told his officer please forgive him.
 (c) The peon requested his officer that he forgive him.
 (d) The peon said to his officer that he should forgive him

Directions (99-100): A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best express the same sentence in Passive/Active Voice and mark your answer in the Answer Sheet.

99. Take the medicine.

- (a) Let the medicine be taken
 (b) The medicine must take you
 (c) The medicine is to be taken by you
 (d) You are requested to take the medicine.

100. I cannot trust him any more.

- (a) He may not be trusted by me any more
 (b) He cannot be trusted by me any more.
 (c) He cannot trust by me any more.
 (d) He could not be trusted by me any more.

QUANTITATIVE APTITUDE

101. If $p^3 - q^3 = (p-q) \{(p-q)^2 - xpq\}$, then find the value of x is:

- (a) -1 (b) -3 (c) 1 (d) 3

102. Simon purchased a bicycle for Rs.6810. He had paid a VAT of 13.5%. The list price of the bicycle was:

- (a) Rs. 6140 (b) Rs.6696.50 (c) Rs.6000 (d) Rs.5970.50

103. A circle touches the four sides of a quadrilateral

ABCD. The value of $\frac{(AB+CD)}{CB+DA}$ is equal to:

- (a) 1 (b) $\frac{1}{2}$ (c) $\frac{1}{3}$ (d) $\frac{1}{4}$

104. The radius of a hemispherical bowl is 6cm. The capacity of the bowl is:

- (a) 345.53cm^3 (b) 452.57cm^3 (c) 495.51cm^3 (d) 452cm^3

105. In a business A and C invested amounts in the ratio 2:1, whereas A and B invested amounts in the ratio 3:2. If their annual profit be Rs. 157300, then B's share in the profit is:

- (a) Rs.24200 (b) Rs.48400 (c) Rs. 48000 (d) Rs.36300

106. TF is a tower with F on the ground. The angle of elevation of T from A is x° such that $\tan x^\circ = \frac{2}{5}$ and $AF=200\text{m}$. The angle of elevation of T from a nearer point B is y° with $BF=80\text{m}$. The value of y° is:

- (a) 30° (b) 60° (c) 45° (d) 75°

107. A student goes to school at the rate of $2\frac{1}{2}\text{ Km/hr}$ and reaches 6 minutes late. If he travels at the speed of 3 Km/hr he is 10 minutes early. What is the distance to the school.

- (a) $3\frac{1}{4}\text{ Km}$ (b) 4 Km (c) $3\frac{1}{2}\text{ Km}$ (d) 1 Km

108. The sum of the perfect squares between 120 and 300 is:

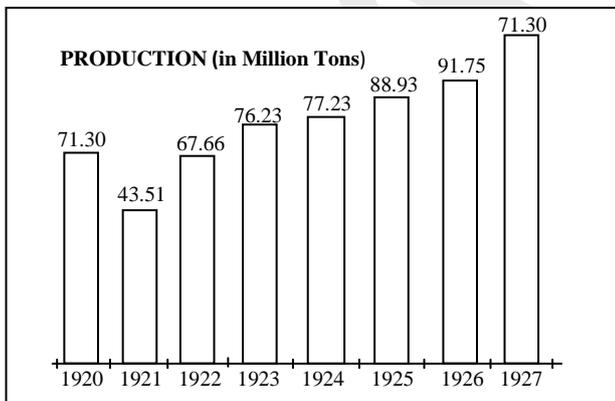
- (a) 1400 (b) 1024 (c) 1296 (d) 1204

109. If A,B,C are the angles of a ΔABC then following is equal to:

- (a) $\sec \frac{B}{2}$ (b) $\sec \frac{A}{2}$ (c) $\cos \frac{A}{2}$ (d) $\text{cosec} \frac{A}{2}$

Directions (110-113): The following table shows the world production of steel in 1920-1927. Study the table and answer the question.

Year	1920	1921	1922	1923	1924	1925	1926	1927
PRODUCTION (in MillionTons)	71.30	43.51	67.66	76.23	77.23	88.93	91.75	100.17



110. The ratio of production of steel in the year 1924 and 1925 to that of 1923 and 1927 is:

- (a) 2005:2077 (b) 2205:2007 (c) 2077:2205 (d) 2205:2077

111. The average production of steel is:

- (a) 76.09 (b) 77.10 (c) 75.13 (d) 74.07

112. The difference of the production of steel in the year 1923 and 1924 is $x\%$ of 1927. Then the value of x is approximately.

- (a) .001 (b) 1 (c) .1 (d) .01

113. The number of years during which the company has its production less than the average production during 1920-1927 is approximately:

- (a) 6 (b) 2 (c) 3 (d) 4

114. If $\sin \Theta + \cos \Theta = \sqrt{2} \sin(90^\circ - \Theta)$ then $\cot \Theta$ is equal to:

- (a) $\sqrt{2} - 1$ (b) $\sqrt{2}$ (c) $\sqrt{2} + 1$ (d) 0

115. A and B can do a piece of work in 15 days. Band C can do the same work in 10 days and A and C can do the same in 12 days. Time taken by A,b and C together to do the job is:

- (a) 4 days (b) 9 days (c) 5 days (d) 8 days

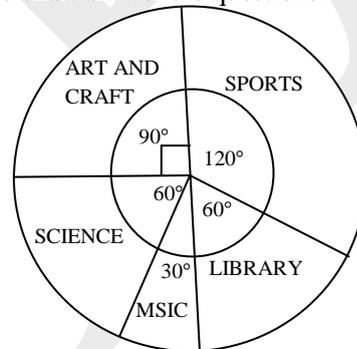
116. AB is the diameter of a circle with centre O. P be a point on it. If $\angle POA = 120^\circ$. Then $\angle PBO = ?$

- (a) 50° (b) 120° (c) 45° (d) 60°

117. The mean high temperature of the first four days of a week is 25°c whereas the mean of the last four days is 25.5°c . If the mean of the whole week is 25.2°c then the temperature of the 4th day is:

- (a) 25°c (b) 25.2°c (c) 25.6°c (d) 25.5°c

Directions (118-122): The pie chart shows how the school funds is spent under different heads in a certain school. Using the pie chart answer the questions.



118. Which head uses 25% of the Funds ?

- (a) Sports (b) Art and Craft (c) Library (d) Misc

119. Which head has the maximum expenditure?

- (a) Art and Craft (b) Library (c) Sports (d) Science

120. What percentage of the total expense is spent on library?

- (a) 24 (b) 20 (c) 16.6 (d) 24.3

121. What is the ratio of expenditure on sports to that on art and craft?

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

122. Which heads have the same amount of expenditure?

- (a) Science and Misc (b) Misc and Library (c) Sports and Science (d) Library and Science

123. Each side of a cube is decreased by 25%. Find the ratio of the volumes of the original cube and the resulting cube.

- (a) 8:1 (b) 64:27 (c) 64:1 (d) 27:64

124. For real a, b, c if $a^2 + b^2 + c^2 = ab + bc + ca$. the value of $\frac{a+c}{b}$ is:

- (a) 3 (b) 1 (c) 2 (d) 0

125. The value of the following is:

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

126. There is 10% loss if an article is sold at Rs.270. Then the cost price of the article is:

- (a) Rs.320 (b) Rs.270 (c) Rs.300 (d) Rs.250

127. If $x+y = 2a$, then the value of $\frac{a}{x-a} + \frac{a}{y-a}$ is:

- (a) 2 (b) 0 (c) 1 (d) -1

128. The base of a right prism is a trapezium whose lengths of two parallel sides are 10cm and 6cm and distance between them is 5cm. If the length. If the height of the prism is 8cm, its volume is:

- (a) 310cm^3 (b) 300.5cm^3 (c) 300cm^3 (d) 320cm^2

129. On whatsum of money will the difference between simple interest and compound interest for 2 years at 5% per annum be equal to Rs.63?

- (a) Rs.25, 200 (b) Rs.24, 600 (c) Rs.25, 500 (d) 24,800

130. If $\frac{x}{3} + \frac{3}{x} = 1$ then the value of x^3 is?

- (a) -27 (b) 1 (c) 27 (d) 0

131. The ratio of two numbers is 3:4 and their LCM is 120. The sum of numbers is:

- (a) 140 (b) 35 (c) 70 (d) 105

132. A hemisphere and a cone have equal bases. If their heights are also equal, then the ratio of their curved surfaces will be:

- (a) 1:2 (b) $1:\sqrt{2}$ (c) $\sqrt{2}:1$ (d) 2:1

133. A shop of electronic goods is closed on Monday. The average sales per day for remaining six days of a week are Rs.15640 and the average sale of Tuesday to Saturday is Rs.14124. The sales on Sunday is:

- (a) Data inadequate (b) Rs.21704 (c) Rs.23220 (d) Rs.20188

134. $9x^2 + 25 - 30x$ can be expressed as the surface of:

- (a) $-3x - 5$ (b) $3x - 5$ (c) $3x^2 - 25$ (d) $3x + 5$

135. AB and AC are tangents to a circle with centre O. A is the external point of the circle. The line AO intersect the chord BC at D. The measure of the $\angle BDO$ is:

- (a) 75° (b) 45° (c) 90° (d) 60°

136. Let ABC be an equilateral triangle and AD perpendicular to BC. Then $AB^2 + BC^2 + CA^2 = ?$

- (a) $3AD^2$ (b) $5AD^2$ (c) $4AD^2$ (d) $2AD^2$

137. A man buys a TV priced at Rs.16000. He pays Rs.4000 at once and the rest after 15 months on which he is charged a simple interest at the rate of 12% per year. The total amount he pays for the TV is:

- (a) Rs.17, 800 (b) 18,200 (c) 17,200 (d) 16,800

138. The total discount on Rs.1860 due after a certain time at 5% is 60. Find the time after which it is due:

- (a) 9 months (b) 10 months (c) 8 months (d) 7 months

139. The difference between the greatest and the least four digit numbers that begin with 3 and ends with 5 is:

- (a) 990 (b) 900 (c) 909 (d) 999

140. What is the position of the circumcentre of an obtuse-angled triangle?

- (a) It lies inside the triangle
(b) It is the mid point of the largest side.

(c) It lies outside the triangle.

(d) It is the vertex opposite to the largest side.

141. D and E are mid-points of sides AB and AC respectively of the ΔABC . A line drawn from A meets BC at H and DE at K.

- (a) 1:3 (b) 2:1 (c) 1:2 (d) 1:1

142. If $\sqrt{33} = 5.745$, then the value of the following is

approximately: $\sqrt{\frac{3}{11}}$

- (a) 6.32 (b) 2.035 (c) 1 (d) 0.5223

143. The value of the following is:

$$\left(\frac{\sin 47^\circ}{\cos 43^\circ}\right)^2 + \left(\frac{\cos 43^\circ}{\sin 47^\circ}\right)^2 - \cos^2 45^\circ$$

- (a) $\frac{1}{2}$ (b) -1 (c) 1 (d) 0

144. The greatest four digit number which is exactly divisible by each one of the numbers 12, 18, 21 and 28.

- (a) 9828 (b) 9928 (c) 9882 (d) 9288

145. The number of pair of positive integers whose sum is 99 and HCF is 9 is:

- (a) 2 (b) 4 (c) 3 (d) 5

146. 50% of a number when added to 50 is equal to the number. The number is:

- (a) 150 (b) 75 (c) 50 (d) 100

147. A train passes an electrical pole in 20 seconds and passes a platform 250m long in 45 seconds. Find the length of the train:

- (a) 400m (b) 250m (c) 200m (d) 300m

148. An epidemic broke out in a village in which 5% of the population died. Of the remaining, 20% fled out of panic. If the present population is 4655, then the population of the village originally was:

- (a) 5995 (b) 6125 (c) 6000 (d) 5955

149. A pipe can fill a tank in 24 hrs. Due to a leakage in the bottom, it is filled in 36 hrs. If the tank is half full, how much time will the leak take to empty the tank?

- (a) 24hrs (b) 72 hrs (c) 36hrs (d) 48hrs

150. The difference between simple interest and the true discount on Rs. 2400 due 4 years hence at 5% per annum simple interest is:

- (a) Rs.50 (b) Rs.30 (c) Rs. 70 (d) Rs.80

GENERAL AWARENESS

151. Dry ice is the solid form of:

- (a) Carbon di-oxide (b) Water (c) Air (d) Nitrogen

152. Which one of the following word is used in making cricket bats?

- (a) Cedrus deodara (b) Salix purpurea
(c) Linum usitatissimum (d) Morous alba

153. What is 'Talcher' important for?

- (a) Cable industry (b) Heavy water plant
(c) Hydro-electricity (d) atomic reactor

154. Who is the founder of concept "Sarvodaya"?

- (a) KG Mushroowala (b) Mahatma Gandhi
(c) Vinobha Bhawe (d) Jai Prakash Narayan

155. World's largest producer of coffee?

- (a) Argentina (b) Peru (c) India (d) Brazil

156. The battle of Plassey was fought between:

- (a) Mir Khasim and Robert Clive
(b) Mir Jafar and Robert Clive
(c) Sirajudduala and Robert Clive
(d) None of the options

157. When and where the concept of Earth hour began?

- (a) In June, 2007 in Christchurch, Newzealand
(b) In April, 2008 in Tokyo, Japan
(c) In May, 2009 in Colombo, Sri Lanka
(d) In March, 2007 in Sydney, Australia

158. The industrial Development Bank of India was set up in:

- (a) July 1968 (b) July 1966 (c) July 1964 (d) July 1962

159. The Instrument used to measure pressure:

- (a) Anemometer (b) **Aneroid Barometer**
 (b) Thermometer (d) Hygrometer
160. Eddie Redmayne, won the Oscar (2015) for the Best Actor for which film?
 (a) Birdman (b) None of the options
 (c) **The Theory of Everything** (d) Still Alice
161. Who invented the Safety razor?
 (a) **Gillette** (b) Steve Cher (c) Steve Job (d) Lar Strauss
162. 'Cloud burst' means
 (a) Formation of artificial rain
 (b) **Abnormally heavy downpour of rain, associated with a thunderstorm**
 (c) Presence of scattered flakes of cloud in the sky.
 (d) Sowing of seeds of a crop in cloudy weather
163. More than 50% of the world's coal deposits are held by :
 (a) China, India and Russia (b) China, India and USA
 (c) India, Russia and USA (d) **USA, Russia and China**
164. The intensity ratio of waves is 25:9. What is the ratio of their amplitudes?
 (a) 25:9 (b) **5:3** (c) 3:5 (d) 50: 18
165. Which was the first talkie film made in India?
 (a) Raja Harishchandra (b) Kisan Kanya
 (c) Mother India (d) **Alam Ara**
166. How many states are there in the Indian Union?
 (a) 27 (b) 28 (c) **29** (d) 30
167. Which day is observed as World AIDS Day?
 (a) March 20th (b) **December 1st** (c) March 1st
 (d) December 20th
168. When number of turns in a coil is tripled, without any change in the length of coil, its self inductance becomes?
 (a) one-third (b) six times (c) three times (d) **nine times**
169. Which factor is necessary for the development of democratic institutions?
 (a) **Respect for individual rights** (b) A one-party system
 (c) Strong military forces (c) An agricultural economy
170. Which one of the following is odd?
 (a) **SNMP** (b) IMAP (c) SMTP (d) POP
171. First human heart transplant was performed in:
 (a) 1972 (b) **1967** (c) 1959 (d) 1955
172. When was the last telegram sent in India
 (a) July 30,2013 (b) June14, 2013 (c) August1, 2013
 (d) **July14, 2013**
173. Which of the following property of sound is affected by change in air temperature?
 (a) Amplitude (b) **Wavelength** (c) Frequency
 (d) Intensity
174. The directive principles incorporated in the Indian Constitution have been inspired by the constitution of:
 (a) Canada (b) **Ireland** (c) USA (d) Australia
175. National Renewal Fund (NRF) was instituted for the purpose of:
 (a) Rural reconstruction
 (b) Providing pension for retiring employees.
 (c) **Restructuring and modernisation of industries**
 (d) Social security
176. The common name of sodium bicarbonate is:
 (a) Baking powder (b) **Baking Soda** (c) Soda ash
 (d) Soda lime
177. Who are Akbar's famous revenue ministers?
 (a) Humayun (b) Tansen (c) **Todarmal**
 (d) Rana Pratap Singh
178. How many Nobel Prize awards are awarded each year?
 (a) 8 (b) 5 (c) **6** (d) 10
179. 'Red Data Book' provides an account of?
 (a) Endangered plants only
 (b) **Endangered plants and animals**
 (c) Fossil plants
 (d) Extinct animals only
180. The serious environmental degradation of Maldives is considered to be essentially due to:
 (a) Industrial pollution of water and air
 (b) Constant soil erosion
 (c) **None of the options**
 (d) High population density
181. RBI's deadline to exchange per 2005 currency notes of Rs. 500 and Rs.1000 is:
 (a) **December 31, 2015** (b) January 1, 2015
 (c) April 1, 2015 (d) March 31, 2015
182. Who was the first Indian to become member of British Parliament?
 (a) Surendranath Banerjee (b) D.N. Wacha
 (c) Firozshah Mehta (d) **D.Dadabhai Naoroji**
183. The Indian who won the Grammy Award 2015 in the new age album category is:
 (a) **Musician Ricky Kej** (b) Author Neela Vasswani
 (c) Singer Kavita (d) Musician A.R. Rehman
184. Phycology is the study of :
 (a) **Algae** (b) Lichens (c) Fungi (d) Bacteria
185. Who among the following rulers abolished Jaziya?
 (a) Jahangir (b) Balban (c) Aurangzeb (d) **Akbar**
186. A bullet of mass 'm' and velocity 'a' is fired in to a large block of wood of mass 'M'. The final velocity of the system is:
 (a) $\frac{M}{m+M} a$ (b) $\frac{m+M}{M} a$ (c) $\frac{m}{m+M} a$ (d) $\frac{m+M}{m} a$
187. If there is one million Mg^{2+} ions in $MgCl_2$, how many chloride ions are there?
 (a) Ten million (b) **Two million** (c) Half a million
 (d) One million
188. Which one of the following is not coal variety?
 (a) Peat (b) Lignite (c) **Dolomite** (d) Bituminous
189. Who wrote the famous novel "The Guide"?
 (a) Cheaten Bhagat (b) Arundathi Roy
 (c) **R.k. Narayan** (d) Satyajit Ray
190. The non-corporation movement was called off due to?
 (a) Jallian walla Bagh (b) **Chauri Chaura Incident**
 (c) Poona pact (d) Gandhi- Irwin pact
191. The idea of parliamentary form of government is adapted from:
 (a) US (b) USSR (c) **UK** (d) Ireland
192. The total utility from 9 units of commodity x is 20 and from 10 units is 15. Calculate the marginal utility from 10th unit.
 (a) - 0.5 (b) 0.5 (c) 5 (d) **- 5**
193. Name the first Asian country to Orbit Mars.
 (a) Japan (b) China (c) **India** (d) Pakistan
194. Soilless agriculture refers to:
 (a) Inter-cropping (b) Sericulture (c) **Hydroponics**

- (d) Hygroponics
- 195.** The gas that causes suffocation and death when coal or coke is burnt in a closed room is:
(a) Ethane (b) Carban di-oxide (c) Methane
(d) Carbon monoxide
- 196.** In which year was the first world environment day observed?
(a) 1973 (b) 1980 (c) 1972 (d) 1974
- 197.** Ppick out the person associated with the coming of the term 'gene':
(a) Morgan (b) Mendel **(c) Johanssen** (d) Waldeyer
- 198.** Which U.S. President announced the "New Deal" for economic recovery in the aftermath of the Great Depression?
- (a) J.F. Kennedy (b) Benjamin Franklin
(c) Arabian Lincoln **(d) Roosevelt**
- 199.** Barter transactions means:
(a) Coins are exchanged for
(b) Goods are exchanged with goods
(c) Money acts as a medium of exchange
(d) Goods are exchanged with gold.
- 200.** Which of the following memories must be refreshed many times per second?
(a) Dynamic RAM (b) Static RAM (c) ROM
(d) EPROM