Solved Paper  
SSC Higher Secondary Level Data Entry  
Operator & LDC Exam  
Held on—28-11-2010  
2nd Sitting

PART-I  
GENERAL INTELLIGENCE

Directions (1-9): In each of the following questions, select the related letters/word/number from the given alternatives.

1. Tadpole : Frog : : Cub : ?  
   (a) Hedgehog  (b) Lion  
   (c) Cat          (d) Dog  
2. CHAIR : RIAHC : : TABLE : ?  
   (a) BATLE  (b) EBATL  
   (c) ELBAT          (d) ELTAB  
3. LKJ : MNO : : DCB : ?  
   (a) FEG  (b) EGF  
   (c) FGH          (d) EFG  
4. ABCD : WXYZ : : EFGH : ?  
   (a) STUV  (b) STOU  
   (c) STUE          (d) TSUV  
5. 7 : 48 : : 12 : ?  
   (a) 143  (b) 84  
   (c) 121          (d) 112  
6. 72 : 18 : : 56 : ?  
   (a) 24  (b) 22  
   (c) 20          (d) 16  
7. 6 : 21 : : 3 : ?  
   (a) 28  (b) 18  
   (c) 61          (d) 32  
8. Brick : Mason : : Colour : ?  
   (a) Child  (b) Teacher  
   (c) Painter    (d) Potter  
9. Sleep : Rest : : Play : ?  
   (a) Enjoyment (b) Learning  
   (c) Injury      (d) Champion  

Directions (10-18): In each of the following questions, find the odd word/letters/number from the given alternatives.

10. (a) 064  (b) 208  
    (c) 316          (d) 118  
11. (a) Mile  (b) Centimeter  
    (c) Litre        (d) Yard  
12. (a) 36  (b) 61  
    (c) 84          (d) 108  
13. (a) March  (b) April  
    (c) August      (d) December  
14. (a) Bus  (b) Scooter  
    (c) Cycle       (d) Boat  
15. (a) Iron  (b) Plastic  
    (c) Brass       (d) Copper
16. (a) BDH   (b) CFL
       (c) EJU   (d) DHP
17. (a) CBCD  (b) IHIJ
       (c) ONOP  (d) UTUW
18. (a) ADGPT (b) ACEIK
       (c) ABDEI  (d) ADIPY
19. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
   bca__b__aabc__a__caa
   (a) c b a b (b) b a c c
   (c) a c a b (d) b c b b

Directions (20-24): A series is given with one for (or more) term missing. Choose the correct alternative from the given ones that will complete the series.

20. BDF, ?, PRT, WYA
    (a) GJK    (b) HKL
    (c) IKM    (d) IJK
21. 14, 21, 30, 41, 54, ?
    (a) 61      (b) 73
    (c) 69      (d) 70
22. 17, 14, 15, 12, 13, ?, ?
    (a) 10, 11  (b) 14, 11
    (c) 11, 13   (d) 12, 15
23. 2, 5, 10, ?, 26
    (a) 19      (b) 21
    (c) 17      (d) 25
    (a) I       (b) H
    (c) U       (d) D

Directions: From among the given alternatives, select the one in which the set of numbers is most like the set of numbers given in the question.

25. Given set: (10, 12, 15)
    (a) (21, 23, 27)
    (b) (30, 32, 36)
    (c) (60, 62, 66)
    (d) (68, 70, 73)
26. M and F are a married couple. A and B are sisters. A is the sister of F. Who is B to M?
    (a) Sister   (b) Sister-in-law
    (c) Niece    (d) Daughter
27. In a row of 16 boys, when Prakash was shifted by two places towards the left, he became 7th from the left end. What was his earlier position from the right end of the row?
    (a) 7th     (b) 8th
    (c) 9th     (d) 10th
28. If day before yesterday was Wednesday, when will Sunday be?
    (a) 3 days after today
    (b) Tomorrow
    (c) Today
    (d) Day after tomorrow
29. The sum of the ages of a father and a son presently is 70 years. After 10 years the son’s age is exactly half that of the father’s. What are their age now?
    (a) 45 years, 25 years
    (b) 50 years, 20 years
    (c) 47 years, 23 years
    (d) 50 years, 25 years
30. If B = 2, MAT = 34, then JOGLEX = ?
    (a) 70       (b) 71
    (c) 72       (d) 73
31. If HONESTY is written as ABCXZDQ, how can TONY be written in that code?
    (a) DBCQ    (b) QDCX
    (c) CBXZ    (d) CQDC
32. Sanmitra starts from his house and walks 3 km towards north. Then he turns right and walks 2 km and then turns right and walks 5 km, then turns right and walks 2 km and then again turns right and walks 2 km. Which direction is he facing now?
(a) North (b) South (c) West (d) East

33. Rama is standing at a point facing north. He walks 10 km straight, turns left and walks another 15 km straight and finally turns left and walks 10 km. How far is he from the starting points now?
(a) 10 km (b) 5 km (c) 12 km (d) 15 km

34. In a solid cube made up of 27 small cubes, two opposite sides are painted red, two opposite sides yellow and two other sides white. How many small cubes have the colours yellow and white alone in them?
(a) 4 (b) 8 (c) 12 (d) 16

35. Five birds are sitting on a tree. The Pigeon is to the right of the Parrot. The Sparrow is above the Pigeon. The Crow is next to the Pigeon. The Crane is below the Crow. Which bird is at the centre?
(a) Crow (b) Pigeon (c) Parrot (d) Sparrow

36. Two years ago a mother was 4 times as old as her son. Six years from now her age will become more than double her son’s age by 10 years. What is the present ratio of their ages?
(a) 2 : 1 (b) 3 : 1 (c) 4 : 1 (d) 7 : 1

37. SOCIALISATION
(a) SCOUT (b) CLASS (c) LIAISON (d) ASSOCIATION

38. ADMINISTRATOR
(a) ADMIT (b) NEST (c) MANIA (d) ROAD

Directions: In the following question, from the given alternatives select the word which cannot be formed using the letters of the given word.

39. INFORMATION
(a) FARMER (b) MOTION (c) FIREMAN (d) NAME

Directions (40-41): In each of the following questions, one/two statement are given followed by two conclusions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly/known facts. You have to decide which of the given conclusions. If any, follow from the given statements.

40. Statements: The best evidence of India’s glorious past is the growing popularity of Ayurvedic medicines in the west.
Conclusions:
I. Ayurvedic medicines are not popular in India.
II. Allopathic medicines are not popular in India.
(a) Only I follows (b) Only II follows (c) Both I and II follows (d) Neither I nor II follows

41. Statements: Some dogs bark.
All dogs bite.
Conclusions:
I. Those dogs who do not bark, also bite.
II. Those dogs who do not bark, nor necessarily bite.

(a) Only I follows
(b) Only II follows
(c) Either I or II follows
(d) Neither I nor II follows

42. Select the correct combination of mathematical signs to replace * signs so as to balance the equation.

8 * 8 * 1 * 11 * 11

(a) + = ÷ - (b) × + = -
(c) ÷ × + = (d) - + = ÷

43. If 1 × 10 = 9, 2 × 10 = 18, × 10 = 27, then what is 8 × 10 = ?

(a) 36 (b) 72
(c) 78 (d) 52

44. If ‘+’ stands for division, ‘×’ stands for addition, ‘-’ stands for multiplication, ‘÷’ stands for subtraction, then which of the following equation is correct?

(a) 36 – 6 + 3 × 5 ÷ 3 = 74
(b) 36 × 6 + 7 ÷ 2 – 6 = 20
(c) 36 + 6 – 3 × 5 ÷ 3 = 24
(d) 36 ÷ 6 + 3 × 5 – 3 = 45

Directions: Select the missing number from the given responses.

45. 5 8 7
   2 4 6
   6 2 3
   60 64 ?

(a) 68 (b) 49
(c) 39 (d) 126

Directions: In the following question, 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 the 2 matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II from 5 to 9. A letter from these matrices can be represented first by its row and next by column number. For example, ‘W’ can be represented by 13, 20 etc. ‘H’ can be represented by 66, 78 etc. Identify the set for the word PENS.

46. MATRIX – I

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>P</td>
<td>W</td>
<td>N</td>
<td>I</td>
<td>S</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>S</td>
<td>P</td>
<td>W</td>
<td>N</td>
</tr>
<tr>
<td>2</td>
<td>W</td>
<td>N</td>
<td>I</td>
<td>S</td>
<td>P</td>
</tr>
<tr>
<td>3</td>
<td>S</td>
<td>P</td>
<td>W</td>
<td>N</td>
<td>I</td>
</tr>
<tr>
<td>4</td>
<td>N</td>
<td>I</td>
<td>S</td>
<td>P</td>
<td>W</td>
</tr>
</tbody>
</table>

MATRIX – II

<table>
<thead>
<tr>
<th></th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>A</td>
<td>E</td>
<td>R</td>
<td>O</td>
<td>H</td>
</tr>
<tr>
<td>6</td>
<td>O</td>
<td>H</td>
<td>A</td>
<td>E</td>
<td>R</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>R</td>
<td>O</td>
<td>H</td>
<td>A</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>A</td>
<td>E</td>
<td>R</td>
<td>O</td>
</tr>
<tr>
<td>9</td>
<td>R</td>
<td>O</td>
<td>H</td>
<td>A</td>
<td>E</td>
</tr>
</tbody>
</table>

(a) 12, 67, 21, 30
(b) 43, 56, 13, 23
(c) 43, 56, 21, 42
(d) 31, 57, 21, 42

47. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

Question Figure

Downloaded From: http://www.sscportal.in
48. Which one of the following figures represents the relationships among Dog, Animal, Pets?

(a)  

(b)  

(c)  

(d)  

Directions: Which answer figure will complete the question figure?

49. Question Figure

Answer Figures

(a)  

(b)  

(c)  

(d)  

50. Among the four answer figures, which figure can be formed from the cut-pieces given below in the question figure?

Question Figure

Answer Figures

(a)  

(b)  

(c)  

(d)
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1 | (b) | 2 | (c) | 3 | (d) | 4 | (a) | 5 | (a) | 6 | (b) | 7 | (c) | 8 | (c) | 9 | (a) | 10 | (a) |   |
| 11 | (c) | 12 | (a) | 13 | (b) | 14 | (d) | 15 | (b) | 16 | (c) | 17 | (d) | 18 | (d) | 19 | (c) | 20 | (c) |   |
| 21 | (c) | 22 | (a) | 23 | (c) | 24 | (c) | 25 | (d) | 26 | (b) | 27 | (b) | 28 | (d) | 29 | (b) | 30 | (d) |   |
| 31 | (a) | 32 | (a) | 33 | (d) | 34 | (a) | 35 | (b) | 36 | (b) | 37 | (a) | 38 | (b) | 39 | (b) | 40 | (d) |   |
| 41 | (a) | 42 | (d) | 43 | (b) | 44 | (a) | 45 | (d) | 46 | (c) | 47 | (b) | 48 | (c) | 49 | (a) | 50 | (b) |   |
PART-II
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 (4) i.e. No error.

51. I remember (1) meet him/ (2) five years ago. (3) No error (4).
52. He asked (1) that how long (2) you would be absent. (3) No error (4).
53. He ate (1) nothing (2) since yesterday. (3) No error (4).
54. She (1) is working here (2) since 1983. (3) No error (4).
55. Madhuri Dixit is having (1) a large (2) a fan following. (3) No error.

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 exchange rules.
   (a) anticipation (b) compensation (c) perpetration (d) violation
57. One of the players forget to _____ .
   (a) turn up for practice (b) run away from school (c) buy shoes for the exam (d) bring his book for the match
58. Today students should be reconciled _____ the way thing are changing.
   (a) with (b) to (c) for (d) at
59. The country’s economic growth was adversely _____ by political instability.
   (a) reflected (b) effected (c) affected (d) expected
60. The agenda for the meeting is ____ the notice.
   (a) forwarded in (b) subscribed to (c) enclosed with (d) delivered as

Directions (61-65): In the following questions, out of the alternatives, choose the one which best expresses the meaning of the given word.

61. FORTIFY
   (a) create (b) generate (c) prohibit (d) strengthen
62. PACIFY
   (a) clam down (b) satisfy (c) rouse (d) rejoice
63. PAUCITY
   (a) surplus (b) shortage (c) excess (d) meanness
64. TEDIOUS
   (a) devious (b) dull (c) distinctive (d) derogatory
65. ATROCITY
   (a) envy (b) violence (c) jealousy (d) absurdity

Directions (66-70): In the following questions, choose the word opposite in meaning to the given 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
70. DILIGENT
   (a) intelligent (b) lazy (c) boastful (d) notorious

Directions (71-75): In the following questions, for alternatives are given the idiom/phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase.

71. Having no arguments to defend his point, the speaker began to beat about the bush.
   (a) wander across the words
(b) speak in a haphazard manner  
(c) speak in a round-about manner  
(d) make use of irrelevant reference  

72. They were offered six months’ rent in lieu of notice to vacate the building.  
(a) in spite of  
(b) in place of  
(c) despite of  
(d) in addition of  

73. The reputed company is in the red due to the recession.  
(a) making money  
(b) losing money  
(c) in danger  
(d) spending money  

74. When the Principal was entering the class, all my friend quietly disappeared, leaving me alone to face the music.  
(a) to listen to him  
(b) to enter into the class  
(c) to bear the criticism  
(d) to listen to a favourable comment  

75. The Kenyan team proved to be dark horse in the ICC World Cup Cricket.  
(a) a strong intruder  
(b) a skilled team  
(c) the most powerful  
(d) an unexpected winner  

77. Either Vijay or Vimal are going to be selected for the match.  
(a) has  
(b) is  
(c) have been  
(d) No improvement  

78. Nisha is more funnier than Natasha.  
(a) funnier  
(b) funniest  
(c) quite funny  
(d) No improvement  

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  
(a) misanthrope  
(b) anthropologist  
(c) philanthropist  
(d) mercenary  

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  
(a) observation  
(b) examination  
(c) introspection  
(d) introvert  

84. One who has narrow and prejudice religious views  
(a) religious  
(b) fanatic  
(c) bigot  
(d) god-fearing  

Directions (76-80): In the following questions, a part of the sentence is printed in bold. Below are given alternatives to the bold part at (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (4).  

76. My uncle presented me the more expensive watch.  
(a) much  
(b) mere  
(c) most  
(d) No improvement  

81-85
85. Capable of being interpreted in two ways
(a) confusing  (b) unclear  
(c) ambiguous  (d) ambivert

Directions (86-90): 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 alternative given.

PASSAGE
(Question Nos. 86 to 95)
Indu ‘didda’ loved to wear saris. He (86) collections, which Sonia inherited, were remarkable for not only (87) taste, but also the (88) of weaves and traditional representation. 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.

86. (a) private  (b) peculiar  
(c) personnel  (d) particular

87. (a) extravagant  (b) worthy  
(c) good  (d) suitable

88. (a) uniformity  (b) mixture  
(c) extent  (d) variety

89. (a) with  (b) in  
(c) for  (d) since

90. (a) keen  (b) attracted  
(c) earnest  (d) enthusiastic

91. (a) base  (b) wave  
(c) weave  (d) length

92. (a) When  (b) Also  
(c) If  (d) But

93. (a) snobbish  (b) knowledgeable  
(c) smart  (d) wonderful

94. (a) Hence  (b) So  
(c) Thus  (d) But

95. (a) notice  (b) attention  
(c) observation  (d) concern

Directions (96-100): In the following questions, you have one brief passage with 5 questions. Read the passage carefully and choose the best answer to each question out of the four alternatives.

PASSAGE
(Question Nos. 96 to 100)
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 true 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.

Computer 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 prove constant feedback. Students enjoy practicing 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 examination 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) originally
(c) aptitude  (d) creativity

99. The writer’s intention to compare the topic of discussion what that of dance and music is to
(a) show how students of dance and music enjoy not only learning but also examinations
(b) popularises 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 originally and problem solving ability
51. (b) 52. (b) 53. (a) 54. (b) 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. (d) 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)
PART-III

NUMERICAL APTITUDE

101. \( \frac{1}{7} + \frac{2}{7} + \frac{3}{7} + \frac{4}{7} + \frac{5}{7} + \frac{6}{7} \) is equal to
(a) 603  (b) 600  
(c) 598  (d) 597

102. When two numbers are separately divided by 33, the remainders are 21 and 28 respectively. If the sum of the two numbers is divided by 33, the remainder will be
(a) 10  (b) 12  
(c) 14  (d) 16

103. The sum of two numbers is 84 and their HCF is 12. Total number of such pairs of numbers is
(a) 2  (b) 3  
(c) 4  (d) 5

104. If \( \sqrt{2} = 1.4142\ldots \) is given, then is value of \( \frac{7}{3+\sqrt{2}} \) correct to two decimal places is
(a) 1.59  (b) 1.60  
(c) 2.58  (d) 2.57
105. The number, which when multiplied with \((\sqrt{3}+\sqrt{2})\) gives \((\sqrt{12}+\sqrt{18})\), is
(a) \(3\sqrt{2}-2\sqrt{3}\)
(b) \(3\sqrt{2}+2\sqrt{3}\)
(c) \(\sqrt{6}\)
(d) \(2\sqrt{3}-3\sqrt{2}\)

106. If \(x-y=2\) and \(x^2+y^2=20\), the value of \((x+y)^2\) is
(a) 38
(b) 36
(c) 16
(d) 12

107. \(\sqrt[3]{3\sqrt{3}\cdot5\cdots}\) is equal to
(a) \(\sqrt{3}\)
(b) 3
(c) \(2\sqrt{3}\)
(d) \(3\sqrt{3}\)

108. If \(x = a + \frac{1}{a}\) and \(y = a - \frac{1}{a}\), then the value of \(x^4 + y^2 - 2x^2y^2\) is
(a) 24
(b) 18
(c) 16
(d) 12

109. \(\sqrt{66+2} + \frac{1}{\sqrt{66+2}} + \frac{1}{\sqrt[4]{66+2}} + 2-2\sqrt{2}\) is equal to
(a) 0
(b) \(2\sqrt{2}\)
(c) \(2\sqrt{6}\)
(d) \(2\sqrt{7}\)

110. The sum of two number is 15. The sum of their reciprocals is 8. The sum of their reciprocals is
(a) \(\frac{8}{15}\)
(b) \(\frac{15}{8}\)
(c) 23
(d) 7

111. The length of a diagonal of a square is \(15\sqrt{2}\) cm. Its area is
(a) 112.5 cm\(^2\)
(b) 450 cm\(^2\)
(c) \(\frac{225\sqrt{2}}{2}\) cm\(^2\)
(d) 225 cm\(^2\)

112. In a \(\triangle ABC\), \(AB = 3\) cm, \(AC = 4\) cm and \(AD\) is the bisector of \(\angle A\) meets \(BC\) in \(D\). Then, \(BD:DC\) is,
(a) 9 : 16
(b) 16 : 9
(c) 3 : 4
(d) 4 : 3

113. A copper wire, when bent in the form of a square encloses a region having area 121 cm\(^2\). If the same wire is bent in the form of a circle, then the area of the region enclosed by wire will be \(\pi = \frac{22}{7}\)
(a) 154 cm\(^2\)
(b) 143 cm\(^2\)
(c) 132 cm\(^2\)
(d) 121 cm\(^2\)

114. Surface areas of the adjacent faces of a cuboid are \(p, q, r\). Its volume is
(a) \(\sqrt{pq^3+qr^3+rp^3}\)
(b) \((\sqrt{pq}+\sqrt{qr}+\sqrt{rp})(p^2+q^2+r^2)\)
(c) \(\sqrt{p^3+q^3+r^3}(p+q+r)\)
(d) \(\sqrt{pqr}\)

115. Next term of the sequence
8, 12, 9, 13, 10, 14, …, is
(a) 11
(b) 15
(c) 16
(d) 17
116. The wrong number in the sequence 3, 5, 7, 9, 11, 17, 19 is
   (a) 17  (b) 13  (c) 9  (d) 7

117. One tap can fill a water tank in 40 minutes and another tap can make the filled tank empty in 60 minutes. If both the taps are open, in how many hours will the empty tank be filled?
   (a) 2  (b) 2.5  (c) 3  (d) 3.5

118. A, B and C together can complete a piece of work in 30 minutes. A and B together can complete the same work in 50 minutes. C alone can complete the work in
   (a) 60 minutes  (b) 75 minutes  (c) 80 minutes  (d) 150 minutes

119. P can complete \( \frac{1}{4} \) of a work in 10 days, Q can complete 40% of the same work in 15 days, R can complete \( \frac{1}{3} \) of the work in 13 days and S can complete \( \frac{1}{6} \) of the work in 7 days. Who will be able to complete the work first?
   (a) P  (b) Q  (c) R  (d) S

120. A circle and a square have equal areas. The ratio of a side of the square and the radius of the circle is
   (a) 1:\( \sqrt{\pi} \)  (b) \( \sqrt{\pi}:1 \)
   (c) 1:\( \pi \)  (d) \( \pi:1 \)

121. The monthly salaries of A, B and C are in the ratio 2:3:5. If C’s monthly salary is Rs. 12,000 more than that of A, then B’s annual salary is
   (a) Rs. 1,20,000  (b) Rs. 1,44,000  (c) Rs. 1,80,000  (d) Rs. 2,40,000

122. If \( A:B = 1:2 \), \( B:C = 3:4 \), \( C:D = 6:9 \) and \( D:E = 12:16 \) then \( A:B:C:D:E \) is equal to
   (a) 1:3:6:12:16  (b) 2:4:6:9:16
   (c) 3:4:8:12:16  (d) 3:6:8:12:16

123. If \( x:y = 2:5 \), then \( (5x + 3y):(5x - 3y) \) is equal to
   (a) 5  (b) 3
   (c) -3  (d) -5

124. The diameter of the base of a right circular cone is 4 cm and its height \( 2\sqrt{3} \) cm. The slant height of the cone is
   (a) 5 cm  (b) 4 cm
   (c) \( 2\sqrt{3} \) cm  (d) 3 cm

125. A dealer marks his goods 20% above their cost price. He then allows some discount on marked price so that he makes a profit of 10%. The rate of discount is
   (a) \( 10\frac{1}{3} \) %  (b) \( 9\frac{1}{3} \) %
   (c) \( 8\frac{2}{3} \) %  (d) \( 8\frac{1}{3} \) %

126. When a shopkeeper gives 10% discount on the list price of a toy, his gain is 20%. If he had given a discount of 20%, his percentage of gain would have been
   (a) \( 6\frac{2}{3} \) %  (b) \( 8\frac{1}{3} \) %
   (c) 10  (d) 15
127. The single discount equivalent of two successive discount of 20% and 5% is
(a) 24%  (b) 25%  (c) 22%  (d) 23%

128. A mixture of 40 litres of milk and water contains 10% of water. How much water must be added to make the water 20% in the new mixture?
(a) 10 litres  (b) 7 litres  (c) 5 litres  (d) 3 litres

129. The average age of a husband and wife, who were married 4 years ago, was 25 years at the time of their marriage. The average age of the family consisting of husband, wife and child, born during the interval is 20 years today. The age of child is
(a) 1 year  (b) 2 years  (c) 2.5 years  (d) 3 years

130. The average temperature of the first 4 days of a week was 37°C and that of the last 4 days of the week was 41°C. If the average temperature of the whole week was 39°C, the temperature of the fourth day was
(a) 38°C  (b) 38.5°C  (c) 39°C  (d) 40°C

131. The average of five numbers is 7. When three new numbers are included, the average of the eight numbers becomes 8.5. The average of the three new numbers is
(a) 9  (b) 10.5  (c) 11  (d) 11.5

132. A student finds the average of ten 2-digit numbers. While copying numbers, by mistake, he writes one number with its digits interchanged. As a result his answer is 1.8 less than the correct answer. The difference of the digits of the number, in which he made mistake, is
(a) 2  (b) 3  (c) 4  (d) 6

133. By selling an article for Rs. 700 a man lost 30%. At what price should be have sold it to gain 30%?
(a) Rs. 910  (b) Rs. 1200  (c) Rs. 1232  (d) Rs. 1300

134. A reduction of 20% in the price of wheat enables Lalita to buy 5 kg more wheat for Rs. 320. The original rate (in rupees per kg) of wheat was
(a) 16  (b) 18  (c) 20  (d) 21

135. Anirudha sold a bicycle at a gain of 8%. Had it been sold for Rs. 75 more, the gain would have been 14%. The cost price of bicycle was
(a) Rs. 1200  (b) Rs. 1250  (c) Rs. 1350  (d) Rs. 1500

136. Richa purchased an article at \( \frac{4}{5} \) of its list price and sold it at 20% more than the list price. Richa’s profit percent was
(a) Rs. 460  (b) Rs. 475  (c) Rs. 480  (d) Rs. 500

137. A man purchased a bedsheets for Rs. 450 and sold it at a gain of 10% calculated on the selling price. The selling price of the bedsheets was
(a) Rs. 460  (b) Rs. 475  (c) Rs. 480  (d) Rs. 500

138. A student scored 32% marks in science subject out of 300. How much should he score in language papers out of 200 if he is go get overall 46% marks?
(a) 72%  (b) 67%  (c) 66%  (d) 60%
139. Two trains of length 137 metre and 163 metre are running with speeds of 42 km/hr and 48 km/hr respectively towards each other on parallel tracks. In how many seconds will they cross each other?
(a) 30 (b) 24 (c) 12 (d) 10

140. A reduction of 25% in the price of rice enables a person to buy 10 kg more rice Rs. 600. The reduced per kg price of rice is
(a) Rs. 30 (b) Rs. 25 (c) Rs. 20 (d) Rs. 15

141. The price of an article has been reduced by 25%. In order to restore the original price, the new price must be increased by
(a) $9\frac{1}{11}$ (b) $11\frac{1}{9}$ (c) $33\frac{1}{3}$ (d) $36\frac{2}{3}$

142. The production in an industry is decreased by 20% due to retirement of the senior employees. By what percent should the working hours be increased to restore the original production?
(a) 18 (b) 20 (c) 22 (d) 25

143. In how many years will the simple interest on a sum of money be equal to the principal at the rate of $16\frac{2}{3}$% per annum?
(a) 4 (b) 5 (c) 6 (d) 8

144. A sum of money doubles itself at some rate of compound interest in 15 years. In how many years will it become eight times of itself with the same rate?
(a) 30 (b) 45 (c) 48 (d) 60

145. The value of a property decreases every year at the rate of 5%. If its present value is Rs. 4,11,450, what was its value 3 years ago?
(a) Rs. 4,50,000 (b) Rs. 4,60,000 (c) Rs. 4,75,000 (d) Rs. 4,80,000

146. The speed of a boat in still water is 10 km/hr. It covers upstream a distance of 45 km in 6 hours. The speed (in km/hr) of the stream is
(a) 2.5 (b) 3 (c) 3.5 (d) 4

Directions (147-150): The pie-chart, given here, shows the land distribution of a village.

Study the pie-chart and answer the question based on it.
147. The ratio of the waste land to the cultivated land is
   (a) 4 : 3    (b) 3 : 2
   (c) 2 : 1    (d) 3 : 1

148. What percent of total lands used for cultivation?
   (a) 24    (b) 25
   (c) 50    (d) 90

149. If the total area of the village is 7200 acres, the total area of the wet land is
   (a) 1028 acres
   (b) 5040 acres
   (c) 3600 acres
   (d) 1400 acres

150. The land used for roads is what percent of the inhabited land?
   (a) $\frac{2}{3} \times 66\frac{2}{3}$    (b) 48
   (c) $\frac{1}{3} \times 33\frac{1}{3}$    (d) 30

**ANSWER SHEET**

101. (d) 102. (d) 103. (b) 104. (a) 105 (c) 106 (b) 107 (b) 108 (c) 109 (d) 110 (a)
111 (d) 112 (c) 113 (a) 114 (d) 115 (a) 116 (c) 117 (a) 118 (b) 119 (b) 120 (b)
121 (b) 122 (d) 123 (d) 124 (b) 125 (d) 126 (a) 127 (a) 128 (c) 129 (b) 130 (c)
131 (c) 132 (a) 133 (d) 134 (a) 135 (b) 136 (a) 137 (d) 138 (b) 139 (c) 140 (d)
141 (c) 142 (d) 143 (c) 144 (b) 145 (d) 146 (a) 147 (a) 148 (b) 149 (d) 150 (c)

www.upscportal.com
PART-IV

GENERAL AWARENESS

151. The degree of monopoly power is to be measured in terms of the firm’s
(a) normal profit
(b) supernormal profit
(c) both normal and supernormal profit
(d) selling price

152. Who propounded the Innovation theory of profits?
(a) J.A. Schumpeter
(b) P.A. Samuelson
(c) Alfred Marshall
(d) David Ricardo

153. Which of the following does not come under legislative control over administration?
(a) Zero hour
(b) Adjournment motion
(c) Budget session
(d) Formulation of a Bill

154. Under perfect competition, the industry does not have any excess capacity because each firm produces at the minimum point on its
(a) long-run marginal cost curve
(b) long-run average cost curve
(c) long-run average variable cost curve
(d) long-run average revenue curve

155. Which one of the following is not a ‘canon of taxation’ according to Adam Smith?
(a) Canon certainty
(b) Canon of simplicity
(c) Canon of convenience
(d) Canon of economy

156. Effective demand depends on
(a) capital-output ratio
(b) output-capital ratio
(c) total expenditure
(d) supply price

157. ‘The Right to Public Office’ is a
(a) Civil right
(b) Economic right
(c) Moral right
(d) Political right

158. Who was the author of Gita Govinda?
(a) Jayadeva
(b) Kalhana
(c) Kalidasa
(d) Raja Rao
159. Which battle did open the Delhi area to Muhammad Ghori?
   (a) First Battle of Tarain
   (b) Second Battle of Tarain
   (c) Battle of Khanwa
   (d) First Battle of Panipat

160. The Aryans successes in their conflicts with the pre-Aryans because
   (a) they used elephants on a large scale
   (b) they were taller and stronger
   (c) they were from an advanced urban culture
   (d) they used chariots driven by horses

161. The Chola kings were ruling over
   (a) Tamil Nadu  (b) Andhra
   (c) Kerala     (d) Bengal

162. From which fund can the unanticipated expenditure be met without the prior approval of the Parliament?
   (a) Consolidated Fund of India
   (b) Contingency Fund of India
   (c) Vote-on-Account
   (d) From the Treasury

163. A law made by the Judiciary is known as
   (a) Ordinary law  (b) Case law
   (c) Rule of law    (d) Administrative law

164. One of the important attributes of Parliamentary form of government is
   (a) Fixed tenure for the executive
   (b) Executive is answerable to the people
   (c) Executive is separate from the legislative
d) Collective responsibility of Council of Ministers to the Parliament

165. ENIAC was
   (a) an electronic calculator
   (b) an electronic computer
   (c) an memory device
   (d) an engine

166. One byte consists of
   (a) one bit      (b) four bits
   (c) eight bits    (d) ten bits

167. Which of the following vertebrates lack exoskeleton?
   (a) Amphibia
   (b) Mammalian
   (c) Aves
   (d) Chondrichtyes

168. Which of the following branches deals with the interaction of same species of living organisms with their non-living environment?
   (a) Autecology
   (b) Synecology
   (c) Ecology
   (d) Paleontology

169. Which of the following organelles is called ‘Atom bombs’?
   (a) Microtubules (b) Nucleolus
   (c) Golgi bodies  (d) Lysosome

170. In AC circuits, AC meters measure
   (a) mean values  (b) rms values
   (c) peak values   (d) mean square values

171. When a light wave is reflected from a mirror, there is a change in its
   (a) frequency     (b) amplitude
   (c) wavelength    (d) velocity

172. Solar energy is due to
   (a) fusion reactions
   (b) fission reactions
   (c) combustion reactions
   (d) chemical reactions
173. The width of depletion layer of a P-N junction
   (a) decreases with light doping
   (b) increases with heavy doping
   (c) is independent of applied voltage
   (d) is increased under reverse bias

174. Huge deposits of uranium were recently found in
   (a) Andhra Pradesh
   (b) Karnataka
   (c) Kerala
   (d) Tamil Nadu

175. When water itself combines chemically with some element or mineral it is called
   (a) Carbonation
   (b) Desalination
   (c) Hydration
   (d) Oxidation

176. From the bark of which plant is quinine extracted?
   (a) Eucalyptus
   (b) Cinchona
   (c) Neem
   (d) Cedar

177. Hypertension is the term used for
   (a) increase in heart rate
   (b) decrease in heart rate
   (c) decrease in blood pressure
   (d) increase in blood pressure

178. The contractile proteins in a muscle are
   (a) Actin and Myosin
   (b) Actin and Tropomyosin
   (c) Myosin and Troponin
   (d) Troponin and Tropomyosin

179. Coins made of metal first appeared in
   (a) Harappan Civilisation
   (b) Later Vedic Age
   (c) Age of the Buddha
   (d) Age of the Mauryas

180. A natural region has the similarity of
   (a) climate and natural vegetation
   (b) climate and occupation
   (c) soil and drainage
   (d) economic base and reces

181. Which one of the following is presently the largest oil refinery of India?
   (a) Vadodara (IOC)
   (b) Mathura (IOC)
   (c) Vishakhapatnam (HPCL)
   (d) Mumbai (BPCL)

182. Imaginary lines joining places with same temperature are called
   (a) Isobars
   (b) Isohyets
   (c) Isohalines
   (d) Isotherms

183. Crop rotation helps to
   (a) lesson use of pesticides
   (b) eliminate parasites which have selective hosts
   (c) yield more crops
   (d) produce a greater choice of plant products

184. An area legally reserved for wild life in its natural surroundings is
   (a) Biosphere Reserve
   (b) Sanctuary
   (c) Social Forest
   (d) National Park

185. Who is the new Governor of Maharashtra?
   (a) Shiv Shankar Menon
   (b) K. Sankaranarayanan
   (c) B.K. Sinha
   (d) Shivaraj Patil
186. At present the BRAHMS missile are assembled at
(a) Bangalore
(b) Hyderabad
(c) Chandipur
(d) Sriharikota

187. The electronic configuration of an atom having atomic number ‘20’ is
(a) 2, 8, 10
(b) 2, 6, 8, 4
(c) 2, 8, 8, 2
(d) 2, 10, 8

188. The most reactive among the halogens is
(a) Fluorine
(b) Chlorine
(c) Bromine
(d) Iodine

189. The major component in the LPG is
(a) methane
(b) butane
(c) ethane
(d) propane

190. KMnO₄ can be used as an
(a) insecticide
(b) fertiliser
(c) pesticide
(d) disinfectant

191. Acute lead poisoning is also known as
(a) Itai-itai
(b) Plumbism
(c) Neuralgia
(d) Byssinosis

192. The vertical movement of air is termed as
(a) wind  (b) air current
(c) air turbulence (d) air mobility

193. Sivasamudra is an island formed by the river
(a) Ganga (b) Godavari
(c) Krishna (d) Cauvery

194. Who among the following was the first heavyweight boxer to go undefeated throughout his career?
(a) Rocky Marciano
(b) Lee Epperson
(c) Larry Holmes
(d) Michael Spinks

195. Which one of the following newspapers had been edited by Gandhiji?
(a) Navjeevan
(b) Gujarat Times
(c) Maratha
(d) Jan Satta

196. The Chairman of the Finance Commission must be
(a) A person of Finance and Banking field
(b) An Economist of high caliber
(c) An expert from Judiciary—level of High Court Judge
(d) A person having experience in Public Affairs

197. The novel ‘White Tiger’ which won the Booker Prize 2008 is authored by
(a) Arundhati Roy
(b) V.S. Naipaul
(c) Kiran Desai
(d) Aravind Adiga

198. Who is the Minister for Environment and Forest of India?
(a) Anand Sharma
(b) Jairam Ramesh
(c) Dayanidhi Maran
(d) None of these
199. Queen Elizabeth has recently conferred Knighthood on
   (a) Chetan Bhagat
   (b) L.N. Mittal
   (c) Salman Rushdie
   (d) None of the above

200. The First Election Commission of India was
   (a) S.P. Sen Verma
   (b) Dr. Nagendra Singh
   (c) K.V.K. Sundram
   (d) Sukumar Sen