SRI KRISHNAVENI COACHING CENTRE

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Time: 2hr
Max: Mar: 200

EXAM: SSC (CHSL)   MODEL PAPER - 1

PART-I
GENERAL INTELLIGENCE

Directions (1 - 7).: In the following questions select the related letters/word/ number from the given alternatives.

1. Smoke : Pollution :: War : ?
   (1) Treaty   (2) Destruction
   (3) Peace   (4) Victory

2. 12 : 30 :: 18 : ?
   (1) 44   (2) 45   (3) 36   (4) 42

3. 85 : 40 :: 77 :   ?
   (1) 49   (2) 50   (3) 14   (4) 48

4. KNQT : LORU :: ADGJ : ?
   (1) DGEF (2) MPVW   (3) BEHK (4) FHLO

5. DRIVEN : NEVIRD : : BEGUM : ?
   (1) EBGMU   (2) MUGEB
   (3) MEUBG   (4) BGMUE

6. Smell : Flower :: Taste : ?
   (1) Food   (2) Sweet (3) Water (4) Salt

7. Introvert : Extrovert :: ?
   (1) Against : Favour   (2) Action : Law
   (3) Angle : Tangent   (4) Extreme : Interim

Directions (8 -11) : In the following questions, find the odd letters/words/number pair from the given alternatives.

8. (1) Plateau (2) Plane (3) Mountain (4) Hill

9. (1) 48-68 (2)71-87 (3) 5-21   (4)29-45

10. (1) EHIK   (2) LNOQ   (3) TWXZ (4) AD EG

11. (1) Across : Along   (2) Small : Large
    (3) Day : Night   (4) Up : Down

12. Sequentially placed at the gaps in the given letter series shall complete it?
    bc___bca__cab__ab__a__ca
    (1) abccb (2) cabca (3) abcab (4) cabac

13. In the following letter series, how many BCN occur in such a way, that C is in the middle and B and N are on any one side?
    BCMXNCXNBXNCBNCBYBCXNBCNABONMZCB
    (1) 5   (2)3   (3) 4   (4) 2

14. Find out the set among the four sets which is like the given set.
    Given set is (6 : 12: 18)
    (1) (6 : 20 : 26)   (2) (30 : 36 : 42)
    (3) (4:8: 14)   (4) (12 : 24 : 36)

15. Which one of the given responses would be a meaningful order of the following in ascending order?
    1. Sending   2. Encoding
    3. Receiving   4. Decoding
    (1) 1,2, 3, 4   (2) 2, 1,3,4
    (3) 2,4,3, 1   (4) 4,2, 1,3

16. Arrange the following words as per order in the English dictionary:
    1. Important   2. Impart
    3. Improvise   4. Improve
    (1) 3, 4, 1,2   (2) 2, 1,3,4
    (3) 1.2, 3, 4   (4) 2, 1, 4, 3

Directions (17-19) : In the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

17. (1)950   (2)400   (3) 900 (4) 800

18. DKY, FJW, HIU, JHS, ?
    (1) KGR   (2) KFR   (3) LFQ   (4) LGQ

19. 7, 8, 11, 16, 23, ?
    (1)37   (2)40   (3) 31   (4) 32

20. If B= 2, BAG = 10, then BOX = ?
    (1)41   (2)52   (3) 36   (4) 39

21. If DISC is coded as 8749 and ACHE is coded as 3950, then HEAD is coded as
    (1) 3508   (2) 3805
    (3) 5038   (4) 5308

22. If January 1st is a Friday, what is the first day of the month of March, in a leap year?
    (1) Thursday   (2) Friday
    (3) Tuesday   (4) Wednesday

23. Barun is taller than Sanjay. Bipul is taller than Barun. Krishna is also not as tall as Bipul, but is taller than Barun. Who is the tallest?
    (1) Krishna   (2) Sanjay (3) Barun (4) Bipul

24. Rajan is younger than his father by 20 years. 5 years ago his father was 3 times elder than him. Find the present age of his father.
    (1) 35 years   (2) 36 years
    (3) 25 years   (4) 30 year

25. Sunita is the 11th from either end of a row of girls. How many girls are there in that row?
    (1) 21   (2) 22   (3) 19   (4) 20

26. A man said to a woman, 'The only son of your brother is the brother of my wife." How is that woman related to the wife of that man?
    (1) Mother   (2) Grandmother
    (3) Aunt   (4) Sister

27. Some capital letters are given below in the first line and numbers are assigned to each of them in the second line. The numbers are the codes for the letters and vice-versa.

M	O	E	A	S	J	T	Z
3	5	7	6	2	9	4	0

Choose the correct number code for the given set of letters.

EAST

(1) 7624   (2) 7625

(3) 7620   (4) 7623

28. From the given alternatives select the word which can be formed using the letters given in the word.

COMPANIONSHIP

(1) OPINION   (2) NATION

(3) OPEN   (4) OPIUM

29. From the given alternatives select the word which cannot be formed using the letters of the given word.

PUNISHMENT

(1) PUSH   (2) NAME   (3) MINT   (4) PEST

30. In a certain code 'CALANDER' is written as 'CLANAEDR'. How is 'CIRCULAR' written in that code?

(1) CRIUCLRA   (2) CRIARLCU

(3) ICCRLURA   (4) CRIUCALR

Directions (31-32) : In the following questions, select the missing number from the given responses.

31.

63	7	9
30	5	6
20	4	?

(1) 5   (2) 2   (3) 8   (4) 3

32.

24	25	50
24	20	10
4	9	3
12	5	?

(1) 20   (2) 5   (3) 10   (4) 15

Directions (33-34) : In the following questions, some equations are solved on the basis of a certain system. On that basis, find out the correct answer for the unsolved equation.

33. 3 x 9 x 7 = 379, 5x4x8 = 584, 1x2x3=?

(1) 213   (2) 132   (3) 123   (4) 231

34. If 526 = 9 and 834 = 9, then 716 = ?

(1) 9   (2) 12   (3) 20   (4) 15

35. One morning Meena started walking towards the Sun. After walking a while she turned towards her left and again towards her left. After walking a while, she turned left. In which direction is she facing now?

(1) West   (2) South

(3) North   (4) East

36. Vijay starts walking straight towards East. After walking 75 metres he turns to the left and walks 25 metres staight. Again he turns to the left and walks a distance of 40 metres straight. Again he turns to the left and walks a distance of 25 metres. How far is he from the starting point?

(1) 50 metres   (2) 35 metres

(3) 140 metres   (4) 115 metres

37. Select the correct combination of mathematical signs to replace '*' signs and to balance the given equation.

24 * 34 * 2 * 5 * 12

(1) = ÷ - +   (2) + + = x

(3) + ÷ x =   (4) = ÷ + -

38. If '+' means 'minus', '-' means 'multiply', '÷' means 'plus' and 'x' means 'divide', then

10 x 5 + 3 – 2 + 3 = ?

(1) 21   (2) 36   (3) 5   (4) $\frac{53}{3}$

39. At a birthday party, 5 friends are sitting in a row. 'M' is to the left of 'O' and to the right of 'P'. 'S' is sitting to the right of T, but to the left of 'P. Who is sitting in the middle?

(1) P   (2) S   (3) M   (4) O

40. One statement is given, followed by two conclusions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statement. Indicate your answer.

Statement: Medals are awards.

Conclusions:

I. All awards are not medals.

II. All medals received are called awards.

(1) Both conclusions I and II follow

(2) Neither conclusion I nor II follows

(3) Only conclusion I follows

(4) Only conclusion II follows

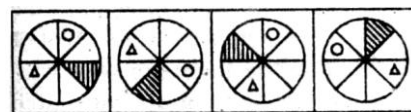41. Which of the conclusions can be drawn from the given statements?

Statements :

All the students in my class are intelligent.

Kaushik is not intelligent.

(1) Kaushik is not a student of my class.

(2) All other than Kaushik are intelligent.

(3) Some students are not intelligent.

(4) Non-intelligent are not students.

42. A machine which cuts a ribbon into pieces of 10 metres takes 6 seconds to make a single cut. How long will it take to completely cut into pieces a ribbon 3 km long?

(1) 1794 seconds   (2) 1800 seconds

(3) 174 seconds   (4) 180 seconds

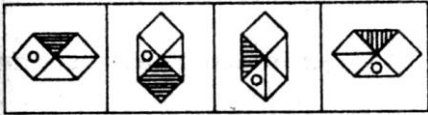43. Select the figure which is different from the rest three.

44. Choose the alternative from the given ones that will complete the series.
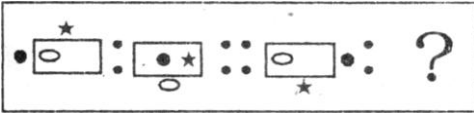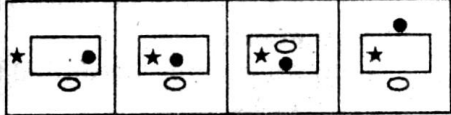
Question figures

Answer figures

(1) (2) (3) (4)

45. Select the related figure from the given alternatives.
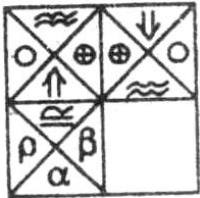
Question figures
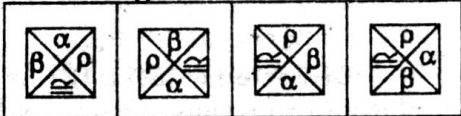

Answer figures

(1) (2) (3) (4)

46. Which answer figure will complete the pattern in the question figure?
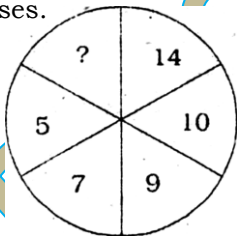
Question figures

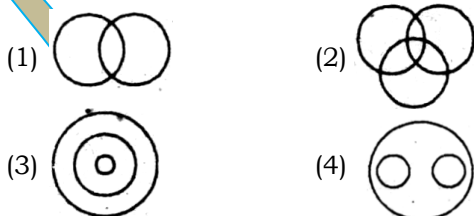**Answer figures**

(1) (2) (3) (4)

47. Select the missing number from the given responses.
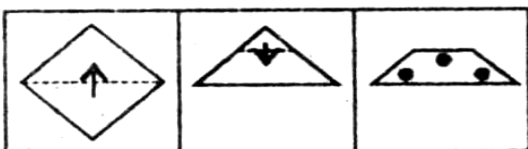

(1) 4　　(2) 18　　(3) 2　　(4) 3

48. Identify the diagram that best represents the relationship among the classes given below:
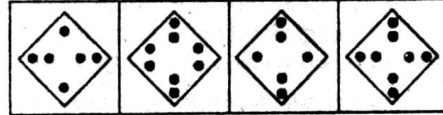
TEA, COFFEE, DRINK

49. A piece of paper is folded and cut / punched as shown below in the question figures. From the given answer figures. Indicate how it will appear when opened.
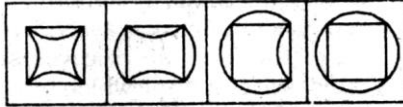
Questions figures

Answer figures

(1) (2) (3) (4)

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

Questions figures

Answer figures

(1) (2) (3) (4)

PART-II
ENGLISH LANGUAGE

Directions (51 - 56) : In the following questions, some parts 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 a sentence is free from error, then your answer is (4), i.e. No Error.

51. She regards (1)/ negotiating prices with customers (2)/ as her special expertise. (3)/ No error (4)

52. The police is investigating (1)/ for the recent happening (2)/ in the area. (3)/ No error (4)

53. The redevelopment project is aimed (1)/ not just providing good houses to shanty dwellers, (2)/but also developing infrastructure around the major Mumbai localities. (3)/ No error (4)

54. Unless he apologizes (1)/ he should not be (2)/ allowed to stay with us. (3)/ No error (4)

55. I met the gentleman (1)/ today morning on my way (2)/ to the market. (3)/ No error (4)

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 as your answer.

56. Internet cafe owners fear that a police crackdown may cause _____ damage to their business.
(1) irreparable　　(2) eternal
(3) untold　　(4) reparable

57. We heard that the Richards _____ their house recently.
(1) will shift　　(2) are shifting
(3) had shifted　　(4) have shifted

58. The more he remonstrated _____ the referee the worse the situation became.
(1) with　　(2) for　　(3) at　　(4) to

59. Our teacher encouraged _____ setting the poem to music.
(1) her　(2) he's　(3) his　(4) him

60. He would not have been successful in the project but _____ my help.
(l) for (2) off (3) of (4) with

Directions (61-62): In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word as your answer.

61. Admonition
(1) Admission (2) Hindrance
(3) Reason (4) Warning

62. Thrifty
(1) Greedy (2) Extravagant
(3) Economical (4) Compassionate

Directions (63-64): In the following questions, choose the word opposite in meaning to the given word as your answer.

63. Dynamic
(1) Static (2) Stupid
(3) Strange (4) Stout

64. Stability
(1) Opposition (2) Carelessness
(3) Disparity (4) Inconsistency

Directions (65 - 66) : In the following questions, there are four different words out of which only one word is correctly spelt. Find the correctly spelt word as your answer.

65. (1) Intermitantly (2) Intarmittantly
(3) Intermittently (4) Intarmitently

66. (1) Coleegue (2) Coligue
(3) Coleague (4) Colleague

Directions (67-69): In the following questions, four alternatives are given for the Idiom/Phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase as your answer.

67. The young servant **goes about** with the old master.
(1) tries to know more about
(2) adjusts well
(3) moves around
(4) goes around

68. The mother was right in **giving a piece of her mind** to the daughter.
(1) speaking sadly
(2) speaking sharply
(3) speaking kindly
(4) speaking cheerfully

69. After getting a severe scolding from his mother, Raghu **got down to business**.
(1) began to work seriously
(2) joined his father's business
(3) started a business
(4) became businesslike

Directions (70 - 72) : In the following questions, out of the four alternatives choose the one which can be substituted for the given words / sentence.

70. An assembly of worshippers
(1) Configuration (2) Confrontation
(3) Congregation (4) Conflagration

71. A person who lives by himself
(1) Extrovert (2) Prophet
(3) Monk (4) Recluse

72. A medicine to nullify the effect of poison
(1) Antidote (2) Anticlimax
(3) Antibody (4) Antigen

Directions (73-74): In the following questions, a part of the sentence is printed in bold. Below are given alternatives to the bold part at (1), (2), (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

73. Complete the **formalities of registration** of the workshop before you enter the hall.
(1) formalities to register for
(2) formalities to registering for
(3) formalities of registration for
(4) No improvement

74. If a man remains as careful as **he is in the beginning**, there will be no failure.
(1) he was in the beginning
(2) he in the beginning
(3) he at the beginning
(4) No improvement

Directions (75-79): In the following questions, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive /Active Voice.

75. **A fresh batch of eggs was collected by the farmer's wife.**
(1) The farmer's wife had collected a fresh batch of eggs.
(2) The farmer's wife will be collecting a fresh batch of eggs.
(3) The farmer's wife was collecting a fresh batch of eggs.
(4) The farmer's wife collected a fresh batch of eggs.

76. **1 shall have written the letter.**
(1) The letter is being written by me.
(2) The letter will have been written by me.
(3) The letter will be written by me.
(4) The letter has been written by me.

77. **Then her face was bowed**.
(1) Then she bowed her face.
(2) Then her face has been bowed.
(3) Then she was being bowed her face.
(4) Her face was bowed by then.

78. **The walls had not been decorated by us**
(1) We have not decorated the walls.
(2) We had not decorated the walls.
(3) We have not been decorating the walls.
(4) We had not been decorating the walls.

79. **We must endure what we cannot cure**.
(1) What cannot cured must endured.
(2) What could be cure must be endured.
(3) What we cure must be endured.
(4) What cannot be cured must be endured.

Directions (80-84) : In the following questions, a sentence has been given in Direct/Indirect. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct.

80. **Suresh asked Prasad whether he had watched the cricket match on television the previous night.**

    (1) Suresh said to Prasad, "Did you watched the cricket match on television last night?"

    (2) Suresh asked Prasad, "Did you watch the cricket match on television previous night?"

    (3) Suresh asked Prasad, "Have you watched the cricket match on television last night?"

    (4) Suresh said to Prasad, "Did you watch the cricket match on television last night?"

81. **Father said to me, "You are idling away your time."**

    (1) Father told me that you were idling away your time.

    (2) Father told me that I was idling away my time.

    (3) Father told me that I am idling away my time.

    (4) Father told me that you are idling away your time.

82. **The captain said to his men, "Fall into line."**

    (1) The captain said to his men that they can fall into line.

    (2) The captain commanded his men to fall into line

    (3) The caption warned his men to fall into line

    (4) The captain told his men that they should fall into line.

83. **The priest said, "May God pardon this sinner!"**

    (1) The priest prayed that God would pardon this sinner.

    (2) The priest prayed that God might pardon that sinner.

    (3) The priest prayed if God will pardon that sinner.

    (4) The priest said that God might pardon the sinner.

84. **Ashmita advised me to go and see a doctor.**

    (1) "Shouldn't you go and see a doctor ?" asked Ashmita.

    (2) "You should go and see a doctor," said Ashmita.

    (3) Ashmita asked me, "Will you go and see a doctor ?"

    (4) Ashmita told me, "Go and see the doctor."

Directions (85-90): In the following questions, the 1st and the last sentences of the passage/parts of the sentence are numbered 1 and 6. The rest of the passage/sentence is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the passage/sentence and find out which of the four combinations is correct. Then find the correct answer. .

85. **1. The first illness I read about was cholera.**
    P. I sat for a while, too frightened to move.
    Q. I came to malaria.
    R. As I read the list of symptoms, it seemed to me that perhaps I had cholera myself.
    S. Then, in a kind of dream, I started to turn the pages of the book again.
    6. Yes, there was no doubt about it — I had malaria too.
    (1) RPSQ   (2) PQSR   (3) SPQR (4) QSPR

86. **1. Lata was caught in a traffic jam.**
    P. Would she really have to miss the interview?
    Q. But the vehicles on either side looked as though they would be there forever.
    R. The reason was that she was due to appear for an interview in less than half- an-hour.
    S. She was fretting she could not afford to be late.
    6. Or, worse — would she arrive late and create a bad first impression?
    (1) RSQP   (2) RSPQ   (3) SRQP (4) SRPQ

87. **1. When you are debating whether to**
    P. but also helps you stay
    Q. take your evening walk or skip it
    R. not only keeps your weight in check
    S. remember that taking a long a walk
    6. calm and relaxed.
    (1) RPQS   (2) QSRP (3) SRPQ (4) QRSP

88. **1. The enzymes in washing powder**
    P. making them able to survive
    Q. come from bacteria
    R. to live in hot springs
    S. that have evolved
    6. the rigours of the hot cycle.
    (1) PQSR   (2) QSRP (3) SQRP (4) QSPR

89. **1. The lion used to be very widely distributed in Africa and Asia.**
    P. There are special forest zones set aside for wild-life in various countries.
    Q. Indiscriminate killing has caused the number to fall.
    R. Today they are a relatively rare species.
    S. If the species survives at all, it will be only in national parks.
    6. No hunting is permitted in such reserved areas.
    (1) RQSP (2) SRPQ   (3) RSPQ   (4) QSPR

90. **1. After the tornado had hit the coastal areas,**
    P. my house was gone,
    Q. I became a pauper overnight
    R. my fields were completely destroyed,
    S. my livestock was lost and
    6. though my neighbour's house remained un-touched.
    (1) QRPS   (2) PRSQ   (3) RPQS (4) SQPR

Directions (91-95): In the following questions, 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.

When I go into a stranger's library. I **(91)** round the bookshelves. This is to know the type of person he is and I feel that I know the **(92)** to his mind. A house without books is a **(93)** house, no matter how rich the carpets are.

These only tell you whether he **(94)** a lot of money, but the books tell you whether he has a mind as well. It is not a **(95)** of money that we do not buy books.

91. (1) look   (2) wander
    (3) wonder   (4) run

92. (1) key   (2) solution
    (3) secret   (4) mystery

93. (1) unlucky   (2) bad
    (3) characterless   (4) bleak

94. (1) have   (2) has had
    (3) had   (4) has

95. (1) issue   (2) cause
    (3) reason   (4) question

Directions (95-100): In the following questions, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

As the rulers of the planet, humans like to think that it is the large creatures who will emerge victorious from the struggle for survival. However, nature teaches us the opposite: it is often the smallest species which are the toughest and most adaptable. A perfect example is the hummingbird, which is found in the Americas. One species of hummingbird known as the bee hummingbird ranks as the world's smallest and lightest bird and it is barely visible when it is in flight.

Hummingbirds are the only birds that can fly backwards. They feed mainly on the nectar of flowers, a liquid that is rich in energy. Nectar is an ideal food source, for hummingbirds need an incredible amount of energy to sustain their body metabolism. A hummingbird's wings flap at a rate of about 80 times per second and its tiny heart beats more than 1000 times per minute. This is why they must consume relatively large quantities of food. In the course of a day, a hummingbird consumes about half its body weight in nectar.

96. **Which of the following statements about the bee hummingbird is true?**
    (1) It could fly high beyond the clouds.
    (2) It cannot be seen when it is in flight.
    (3) It is obviously visible when it flies.
    (4) It escapes our sight when it is in flight.

97. **Hummingbirds need a lot of energy in order to**

(1) sustain a steady rhythm of heart-beat
(2) win in the struggle for survival
(3) maintain their body metabolism
(4) flap their wings and fly backwards

98. **The hummingbirds are exclusive in the sense that**
(1) they consume half their body weight every day
(2) they can fly backwards
(3) they subsist only on nectar
(4) their pulse rate is more than 1000 per minute

99. **The word 'incredible' in the passage means**
(1) unbelievable   (2) phenomenal
(3) tremendous   (4) inexhaustible

100. **Nature has made man realize the fact that**
(1) humans who rule the planet are the most powerful beings on Earth
(2) the largest and the smallest species are equally tough and strong
(3) the large creatures emerge victorious from the struggle for survival
(4) the smallest creatures are the toughest and most adaptable

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PART-III
QUANTITATIVE APTITUDE

101. If 120 is 20% of a number, then 120% of that number will be
(1) 360   (2)720   (3) 20   (4) 120

102. In a division sum, the divisor is 3 times the quotient and 6 times the remainder. If the remainder is 2, then the dividend is
(1) 50   (2) 48   (3) 36   (4) 28

103. $\frac{1}{7} + \left(999\frac{692}{693}\right) \times 99$ is equal to

(1)1   (2) 99000
(3) 99800   (4) 99900

104. Let $\sqrt[3]{a} = \sqrt[3]{26} + \sqrt[3]{7} + \sqrt[3]{63}$ Then

(1) a< 729 but a > 216   (2) a< 216
(3) a > 729.   (4) a = 729

105. The number of prime factors in
    $6^{333} \times 7^{222} \times 8^{111}$
(1) 1221   (2) 1222   (3)1111   (4) 1211

106. The greatest among 1.5, $1.\bar{5}$., $1.0\bar{5}$, 1.5 is
(1) 1.05   (2) 1.5   (3) 1.05.   (4) 1.5

107. $\sqrt{\dfrac{4\frac{1}{7} - 2\frac{1}{4}}{3\frac{1}{2} + 1\frac{1}{7}} \div \dfrac{2}{2 + \dfrac{1}{2 + \dfrac{1}{5 - \frac{1}{5}}}}}$ is equal to

(1) 1   (2)4   (3) 3   (4) 2

108. If $x : y = 3 : 4$ and $y : z = 3 : 4$ then $\dfrac{x + y + z}{3z}$ is equal to

(1) $\dfrac{13}{27}$ (2) $\dfrac{1}{2}$ (3) $\dfrac{73}{84}$ (4) $\dfrac{37}{48}$

109. The value of $\dfrac{\sqrt{72} \times \sqrt{363} \times \sqrt{175}}{\sqrt{32} \times \sqrt{147} \times \sqrt{252}}$ is

(1) $\dfrac{55}{42}$ (2) $\dfrac{45}{56}$ (3) $\dfrac{45}{28}$ (4) $\dfrac{55}{28}$

110. Zinc and Copper are in the ratio 5 : 3 in 400gm of an alloy. How much of copper (in grams) should be added to make the ration 5 : 4?
(1) 50   (2) 66   (3) 72   (4) 200

111. The average age of A and B is 20 years. If A is to be replaced by C, the average would be 19 years. The average age of C and A is 21 years. The ages of A, B and C in order (in years) are
(1) 18, 22, 20   (2) 18, 20, 22
(3) 22, 18, 20   (4) 22, 20, 18

112. A reduction of 10% in the price of a commodity enables a person to buy 25 kg more for ₹225. The original price of the commodity per kg was
(1) ₹2   (2) ₹1   (3) ₹2.50   (4) ₹1.50

113. One type of liquid contains 20% water and the second type of liquid contains 35% of water. A glass is filled with 10 parts of first liquid and 4 parts of second liquid. The water in the new mixture in the glass is

(1) 37%   (2) 46%   (3) $12\dfrac{1}{7}\%$ (4) $24\dfrac{2}{7}\%$

114. At the beginning of a partnership business, the capital of B was $\dfrac{3}{2}$ times that of A. After 8 months B withdrew $\dfrac{1}{2}$ of his capital and after 10 months A withdrew $\dfrac{1}{4}$ th of his capital. At the end of the year, if the profit incurred is Rs.53,000, find the amount received by A.
(1) ₹ 30,800   (2) ₹ 32,000
(3) ₹ 30,000   (4) ₹ 23,000

115. If x, y, z are three sums of money such that y is the simple interest on x and z is the simple interest on y for the same time and at the same rate of interest, then we have
(1) $z^2 = xy$ (2) $xyz = 1$ (3) $x^2 = yz$ (4) $y^2 = zx$

116. Mohan sold his watch at 10% loss. If he had sold it for Rs. 45 more, he would have made 5% profit. The selling price (in Rs.) of the watch was
(1) 300   (2) 900   (3) 110   (4) 270

117. A vendor loses the selling price of 4 oranges on selling 36 oranges. His loss per cent is

(1) $12\dfrac{1}{2}\%$ (2) 9%   (3) 10%   (4) $11\dfrac{1}{2}\%$

118. Successive discounts of 30% and 20% is equivalent to a single discount of
(1) 50%   (2) 40%   (3) 44%   (4) 10%

119. If $\dfrac{xy}{x+y} = a, \dfrac{xz}{x+z} = b$, and $\dfrac{yz}{y+z} = c$, where a, b, c are all non-zero numbers, then x equal to

(1) $\dfrac{2abc}{ab + bc - ac}$ (2) $\dfrac{2abc}{ab + ac - bc}$

(3) $\dfrac{2abc}{ac + bc - ab}$ (4) $\dfrac{2abc}{ab + bc + ac}$

120. If 6x - 5y = 13, 7x + 2y = 23 then 11x + 18y =
(1) – 15   (2) 51   (3) 33   (4) 15

121. If x + y + z = 13 and $x^2 + y^2 + z^2 = 69$, then xy + z (x + y) is equal to
(1) 70   (2) 40   (3) 50   (4) 60

122. Two trains, of same length, are running in parallel tracks in the same direction with speed 60 km/hour and 90 km/hour respectively. The latter completely crosses the former in 30 seconds. The length of each train (in metres) is
(1) 125   (2) 150   (3) 100   (4) 115

123. A and B can together finish a work in 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. The number of days in which B alone can finish the work is
(1) 50   (2) 48   (3) 54   (4) 60

124. PQ is a chord of length 8 cm, of a circle with centre O and of radius 5 cm. The tangents at P and Q intersect at a point T. The length of TP is

(1) $\dfrac{20}{3}$ cm   (2) $\dfrac{21}{4}$ cm

(3) $\dfrac{10}{3}$ cm   (4) $\dfrac{15}{4}$ cm

125. The area of the triangle formed by the graphs of 3x + 4y = 12, x-axis and y-axis (in sq. units) is
(1) 4   (2) 12   (3) 6   (4) 8

126. If $x = \sqrt[3]{2 + \sqrt{3}}$, then the value of $x^3 + \dfrac{1}{x^3}$ is

(1) 8   (2) 9   (3) 2   (4) 4

127. The side QR of an equilateral triangle PQR is produced to the point S in such a way that QR = RS and P is Joined to S. Then the measure of ∠PSR is
(1) 30°   (2) 15°   (3) 60°   (4) 45°

128. ABC is an isosceles triangle with AB = AC. The side BA is produced to D such that AB = AD. If ∠ABC = 30°, then ∠BCD is equal to
(1) 45°   (2) 90°   (3) 30°   (4) 60°

129. ABCD is a trapezium in which AB || DC and AB = 2 CD. The diagonals AC and BD meet at O. The ratio of areas of triangles AOB and COD is
(1) 1 : 2   (2) $1 : \sqrt{2}$ (3) 4 : 1   (4) 1 : 4

130. The altitude drawn to the base of an isosceles triangle is 8 cm and its perimeter is 64 cm. The area (in cm²) of the triangle is
(1) 240   (2) 180   (3) 360   (4) 120

131. Three solid iron cubes of edges 4 cm, 5 cm and 6 cm are melted together to make a new cube. 62 cm³ of the melted material is lost due to improper handling. The area (in cm²) of the whole surface of the newly formed cube
(1) 294   (2) 343   (3) 125   (4) 216

132. If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be
(1) 3 : 4   (2) 4 : 3   (3) 3 : 8   (4) 8 : 3

133. A right pyramid stands on a base 16 cm square and its height is 15 cm. The area (in cm²) of its slant surface is
(1) 514   (2) 544   (3) 344   (4) 444

134. If a chord of a circle is equal to the radius of the circle, then the angle subtended by the chord at a point on the minor arc is
(1) 150°   (2) 60°   (3) 120°   (4) 30°

135. The length of each side of a rhombus is equal to the length of the side of a square whose diagonal is $40\sqrt{2}$ cm. If the lengths of the diagonals of the rhombus are in the ratio 3 : 4, then its area (in cm²) is
(1) 1550   (2) 1600   (3) 1535   (4) 1536

136. The greatest value of $\sin^4\theta + \cos^4\theta$ is
(1) 2   (2) 3   (3) $\dfrac{1}{2}$ (4) 1

137. If $3\sin\theta + 5\cos\theta = 5$ then $5\sin\theta - 3\cos\theta$ is equal to
(1) ± 3   (2) ± 5   (3) 1   (4) ± 2

138. If $\sin\theta + \sin^2\theta = 1$ then the value of $\cos^2\theta + \cos^4\theta$ is
(1) 2   (2) 4   (3) 0   (4) 1

139. From two points on the ground and lying on a straight line through the foot of a pillar, the two angles of elevation of the top of the pillar are complementary to each other. If the distances of the two points from the foot of the pillar are 9 metres and 16 metres and the two points lie on the same side of the pillar, then the height of the pillar is
(1) 5 m   (2) 10 m   (3) 7 m   (4) 12 m

140. The sum of interior angles of a regular polygon is 1440°. The number of sides of the polygon is
(1) 10   (2) 12   (3) 6   (4) 8

141. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm², then its height (in cm) is
(1) 10   (2) 12   (3) 9   (4) 11

142. The product $\cos 1°\ \cos 2°\ \cos 3°\ \cos 4°\ ....\ \cos 100°$ is equal to
(1) –1   (2) $\dfrac{1}{4}$ (3) 1   (4) 0

143. Three pipes A, B and C can fill a tank in 6 hours. After working together for 2 hours. C is closed and A and B fill the tank in 8 hours. The time (in hours in which the tank can be fill by pipe C alone is
(1) 10   (2) 12   (3) 8   (4) 9

144. The radii of two circles are 10 cm and 24 cm. The radius of a circle whose area is the sum of the areas of these two circles is
(1) 36 cm   (2) 17cm   (3) 34 cm   (4) 26 cm

145. The value of
$$\left(x^{b+c}\right)^{b-c}\left(x^{c+a}\right)^{c-a}\left(x^{a+b}\right)^{a-b}$$
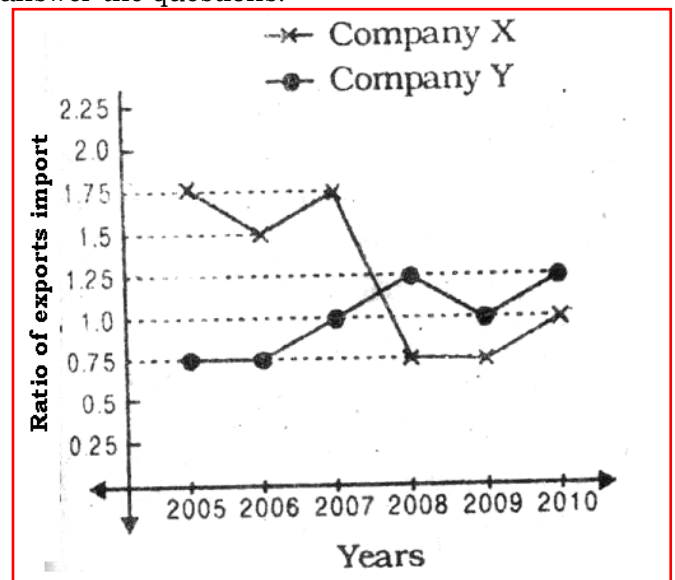(1) 1   (2) 2   (3) -1   (4) 1

146. LCM of two numbers is 2079 and their HCF is 27. If one of the numbers is 189, the other number is
(1) 297   (2) 584   (3) 189   (4) 216

Directions (147-148): The table shows the percentage of total population of a city in different age groups. Study the table and answer the questions.

Age group	percent
Up to 15	20.00
16 – 25	18.25
26 – 35	16.75
36 – 45	16.25
46 – 55	15.00
56 – 65	12.50
66 and above	1.25

147. If there are 22 million people below 36 years, then the number of people (in millions) in the age group 56 - 65 is fl
(1) 5   (2) 5.5   (3) 3   (4) 3.5

148. If the difference between the number of people in the age groups 46 - 55 and 16–25 is 0.975 million, then the total population (in millions) of the city is   \
(1) 27   (2) 30   (3) 22   (4) 25

Directions (149-150): Study the following graph and answer the questions.

149. If the imports of company X in 2007 were increased by 40%, what would be the ratio of exports to the increased imports?
(1) 1.25   (2) 1.75   (3) 0.25   (4) 0.75

150. In 2005, the exports of company X were double that of company Y in that year. If I the imports of company X during the year were ₹180 crores, what was the amount (in crore ₹) of imports of company Y during the year?
(1) 212   (2) 210   (3) 315   (4) 282

PART-IV
GENERAL AWARENESS

151. Which of the following high dignitaries, who are not members of Parliament, has the right to address it?
    (1) Chief Justice of India
    (2) Attorney General of India
    (3) Solicitor General of India
    (4) Chief Election Commissioner of India

152. The Declaration of American Independence was based on the theory of
    (1) Civil Rights   (2) Moral Rights
    (3) Legal Rights   (4) Natural Rights

153. For which tax, was constitutional status given much later after its introduction in a small way in 1994 - 95?
    (1) Customs Duty   (2) Corporation Tax
    (3) Taxes on Services   (4) Income Tax

154. The first Sultan who requested and obtained letters of investiture from the Caliph (Khalifa) was
    (1) Iltutmish   (2) Balban
    (3) FiruzTughluq   (4) Alauddin Khilji

155. The Buddhist monk who spread Buddhism in Tibet was
    (1) Nagaijuna   (2) Ananda
    (3) Asanga   (4) Padmasambhava

156. In 1937, an educational conference endorsing Gandhi's proposals for 'basic education' through the vernacular medium was held at
    (1) Surat   (2) Bombay
    (3) Ahmedabad   (4) Wardha

157. "What is the Third Estate?" pamphlet associated with the French Revolution, was written by
    (1) Marquis-Lafayette   (2) Edmund Burke
    (3) Joseph Foulon   (4) AbbeSieyes

158. Gandhi's Salt Satyagraha was a part of—
    (1) Champaran Satyagraha
    (2) Quit India Movement
    (3) Non Cooperation Movement
    (4) Civil Disobedience Movement

159. Stagflation refers to a situation which is characterised by
    (1) stagnant employment and deflation
    (2) deflation and rising unemployment
    (3) inflation and rising employment.
    (4) inflation and rising unemployment

160. The demand for necessities is
    (1) elastic   (2) perfectly inelastic
    (3) inelastic   (4) perfectly elastic

161. The balance of payments of a country is in equilibrium when the
    (1) demand as well as supply of the domestic currency are the highest
    (2) demand for the domestic currency is equal to its supply
    (3) demand for the domestic currency is the highest
    (4) demand for the domestic currency is the lowest

162. Value-added means value of
    (1) output at factor cost
    (2) output at market prices
    (3) goods and services less depredation
    (4) goods and services less cost of intermediate goods and services

163. The difference between GNP and NNP equals
    (1) corporate profits   (2) personal taxes
    (3) transfer payments   (4) depreciation

164. Who decides a 'bill' is a money bill?
    (1) Prime Minister
    (2) Speaker of Lok-Sabha
    (3) Chairman of Rajya Sabha
    (4) President

165. Which of the following countries is regarded as the home of 'Fabian Socialism'?
    (1) Russia   (2) England
    (3) France   (4) Italy

166. In plant-water relationships, symbol Ψw is used to represent
    (1) Osmotic pressure   (2) Water potential
    (3) Solute potential   (4) Osmosis

167. A molecule in plants comparable to haemoglobin in animals is
    (1) Cytochrome   (2) Cellulose
    (3) Chlorophyll   (4) Carotene

168. An Antigen is
    (1) the result of Antibody
    (2) the opposite of Antibody
    (3) the stimulus for Antibody formation
    (4) the residue of an Antibody

169. Blood does not coagulate inside the body due to the presence of
    (1) Plasma   (2) Haemoglobin
    (3) Heparin   (4) Fibrin

170. The atmospheric layer farthest from the Earth's surface is known as
    (1) Stratosphere   (2) Exosphere
    (3) Ionosphere   (4) Mesosphere

171. The temperate grasslands of South America are called
    (1) Prairies   (2) Pampas
    (3) Downs   (4) Steppes

172. Contours are the lines which drawn joining places having
    (1) equal height from mean sea level
    (2) equal rainfall
    (3) equal air pressure
    (4) equal temperature

173. Soil formed by leaching and oxidation is
    (1) Black soil   (2) Laterite soil
    (3) Red soil   (4) Montane soil

174. Which strait separates Australia and Tasmania?
    (1) Bass   (2) Bab-el-Mandeb
    (3) Palk   (4) Berring

175. Photon is the fundamental i quantum of
    (1) gravitation   (2) electricity
    (3) magnetism   (4) light

176. A liquid disturbed by stirring comes to rest due to
    (1) density   (2) surface tension
    (3) viscosity   (4) centripetal force
177. The nuclear particle having no and no charge, but only spin
    (1) proton   (2) neutrino
    (3) meson   (4) electron
178. The technology that is used to establish wireless networking is
    (1) TCP/IP   (2) J2ME
    (3) MATLAB   (4) Bluetooth
179. What is USB ?
    (1) Ultimate Service Bit
    (2) Universal Sent-Bit
    (3) Universal Serial Bus
    (4) Urgent Sent Bit
180. In a period from Li to F, ionisation potential
    (1) cannot be predicted (2) increases
    (3) decreases   (4) remains same
181. Which of the following metals can deposit copper from copper sulphate solution ?
    (1) Platinum   (2) Mercury
    (3) Iron   (4) Gold
182. Leech is an ectoparasite on cattle, which is
    (1) Carnivorous   (2) Omnivorous
    (3) Sanguivorous   (4) Herbivorous
183. How many chambers does a mammalian heart have ?
    (1) 4   (2) 1   (3) 2   (4) 3
184. When Arsenic atoms are added to Germanium lattice, it becomes a/ an
    (1) Insulator   (2) Superconductor
    (3) Intrinsic semiconductor
    (4) Extrinsic semiconductor
185. Who among the following won the women's 10-metre air rifle gold in the shooting World Cup in Beijing on July 3, 2014?
    (1) Yi Siling, China   (2) Du Bei, China
    (3) Zhang Bin Bin, China
    (4) Suma Shirur, India
186. Who was the first Hindi writer to receive Jnanpith Award?
    (1) Mahadevi Verma
    (2) Sumitranandan Pant
    (3) Dr. Ramdhari Singh Dinkar
    (4) S.H. Vatsyayan
187. Who is the author of the book "A Cricketing Life"?
    (1) Christopher Martin Jenkins
    (2) Sunil Gavaskar
    (3) Kapil Dev   (4) TonyGreig
188. Which country has three capitals viz. Administrative, Legislative and Judicial?
    (1) Chile   (2) Malaysia
    (3) Canada   (4) South Africa
189. How many countries in Africa are members of the Organisation of Petroleum Exporting Countries (OPEC)?
    (1) Four   (2) One   (3) Two   (4) Three

190. The Finance Minister of United Kingdom George Osborne offered a credit line of how much amount for investment in Indian infrastructure projects during the meeting with Finance Minister of India Arun Jaitley in New Delhi on July 8, 2014?
    (1) £ 1 billion   (2) £ 1.2 billion
    (3) £ 1.4 billion   (4) £ 1.8 billion
191. The largest coral reef in the world is found near the coast of
    (1) Brazil   (2) Australia
    (3) Sri Lanka   (4) Cuba
192. Which one of the following Indian World Heritage Sites is not in Madhya Pradesh?
    (1) Khajuraho Temples
    (2) Sun Temple Konark
    (3) Sanchi Stupa
    (4) Rock Shelters of Bhimbetka
193. Which among the following is used to dilute oxygen in the gas cylinders used by divers?
    (1) Krypton   (2) Argon
    (3) Helium   (4) Neon
194. Which one of the following does not form oxyacid?
    (1) Sulphur   (2) Chlorine
    (3) Nitrogen   (4) Fluorine
195. The release of which of the following into ponds and wells helps in controlling mosquitoes?
    (1) Snail   (2) Crab
    (3) Dogfish   (4) Gambusia fish
196. The ambient air is stable when the ambient lapse rate is
    (1) Neutrally stable (2) Hyper-adiabatic
    (3) Sub adiabatic   (4) Super-adiabatic
197. Exposure to mixtures of chemicals are greater than expected on the basis of effects of exposure to each chemical individually. This is known as
    (1) Additives   (2) Antagonism
    (3) Synergism   (4) Independent
198. The filter over which sewage is sprinkled is called as
    (1) Trickling filter   (2) Percolating filter
    (3) Contact bed   (4) Intermittent sand filter
199. Which of the following State Governments on June 17, 2014 announced introduction of martial arts training in girls' schools and degree colleges as a tool to defend themselves?
    (1) Haryana   (2) Punjab
    (3) Karnataka   (4) Uttar Pradesh
200. Who among the following was selected as the new President of the European Commission on June 27, 2014?
    (1) Jose Manuel Barroso
    (2) Herman Van Rompuy
    (3) Jean Claude Jurlcker
    (4) Jose Miguel Insulza Salinas

MODEP PAPER-I ANSWERS

Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	2	51	3	101	2	151	2
2	2	52	1	102	1	152	4
3	1	53	1	103	2	153	3
4	3	54	4	104	1	154	1
5	2	55	1	105	1	155	4
6	1	56	1	106	4	156	4
7	1	57	3	107	1	157	4
8	2	58	1	108	4	158	4
9	1	59	3	109	4	159	4
10	2	60	1	110	1	160	2
11	1	61	4	111	3	161	2
12	1	62	3	112	2	162	4
13	2	63	1	113	4	163	4
14	4	64	4	114	4	164	2
15	2	65	3	115	4	165	2
16	4	66	4	116	4	166	2
17	3	67	4	117	3	167	3
18	4	68	2	118	3	168	3
19	4	69	1	119	3	169	3
20	1	70	3	120	2	170	2
21	3	71	4	121	3	171	2
22	3	72	1	122	1	172	1
23	4	73	3	123	4	173	2
24	1	74	1	124	1	174	1
25	1	75	4	125	3	175	4
26	3	76	2	126	4	176	3
27	1	77	1	127	1	177	2
28	1	78	2	128	2	178	4
29	2	79	4	129	*	179	3
30	4	80	4	130	4	180	1
31	1	81	2	131	1	181	3
32	1	82	2	132	4	182	4
33	2	83	2	133	2	183	1
34	2	84	4	134	2	184	4
35	2	85	1	135	4	185	1
36	2	86	3	136	4	186	2
37	1	87	2	137	1	187	1
38	3	88	2	138	4	188	4
39	1	89	1	139	4	189	1
40	4	90	2	140	1	190	1
41	1	91	1	141	4	191	2
42	1	92	1	142	4	192	2
43	1	93	4	143	2	193	3
44	1	94	4	144	4	194	4
45	2	95	4	145	1	195	4
46	1	96	2	146	1	196	3
47	2	97	3	147	1	197	3
48	4	98	2	148	2	198	1
49	2	99	3	149	1	199	4
50	3	100	4	150	2	200	3