

**DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO**

## QUESTION BOOKLET

**SERIES III**

**Subjects : General English, General Knowledge & Aptitude, Mathematics**

**BOOKLET SERIAL NO.**

**108675**

**Marks : 300**

**Time : 2½ hours**

Read the following instructions carefully before you  
begin to answer the questions.

### INSTRUCTIONS TO CANDIDATES

1. This booklet contains **150 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen in following three parts:

**Part-A-General English : 50 questions, Part-B-General Knowledge & Aptitude : 50 questions,**

**Part-C-Mathematics : 50 questions**

2. All Questions are compulsory.
3. You will be supplied the Answer sheet separately by the invigilator. You must complete the details of particulars asked for.
4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/double series marking shall not be evaluated.

**Example :**

Supposing the following question is asked :-

**The Capital of Meghalaya is-**

- A. Guwahati
- B. Kohima
- C. Shillong
- D. Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :-

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative C i.e. Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ball Point Pen only as below :-

(A) (B) (●) (D)

### WHICH IS THE ONLY CORRECT METHOD OF ANSWERING

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
6. There will NOT be any negative marking for wrong answers.
7. The Answer Sheet must be handed over to the invigilator before you leave the Examination Hall.
8. No rough work is to be done on the Answer Sheet. Space for rough work has been provided in the question booklet.

## PART - A - GENERAL ENGLISH

Marks :100

Each question carries 2 marks :

**Directions :** In the following questions, some of the sentences have errors and some have none. Find out which part of the sentence has an error. If there is no mistake, the answer is 'No error.'

1. No sooner (a) / had he said it when he realised (b) / his folly (c) / no error (d).
2. Yesterday Mark got the (a) / information that his father (b) / died of accident (c) / no error (d).
3. Though he was (a) / highly educated (b) / but he was very modest (c) / no error (d).
4. A man jumped (a) / in the river (b) / in a state of depression (c) / no error (d).
5. He came (a) / from abroad (b) / for seeing me (c) / no error (d).
6. It was so lovely weather (a) / that we spent (b) / the whole day in the garden (c) / no error (d).
7. Jack was living in Dover (a) / for five years (b) / before the year 2020 (c) / no error (d).
8. Us (a) / may stay (b) / in Darjeeling until the monsoon starts (c) / no error (d).
9. The road (a) / to famous movement (b) / passes through a forest (c) / no error (d).
10. He can (a) / only be cured (b) / by a surgical procedure (c) / no error (d).

**Directions :** In each of the questions below, only one among the given alternatives is correctly spelt. Find the correctly spelt word.

11. a) Aliennate                      b) Allienate  
c) Alienate                        d) Alienatte
12. a) Martir                        b) Marter

- c) Martyer                        d) Martyr
13. a) Forefiet                      b) Fourfeit  
c) Forfeit                         d) Forefiet
14. a) Mosquito                    b) Mosquetoe  
c) Mosqueto                      d) Mosquito
15. a) Tarif                         b) Tarriff  
c) Tariff                          d) Tarrif
16. a) Endevor                      b) Endeavour  
c) Endeavour                    d) Endavour
17. a) Apparrell                    b) Aparrel  
c) Aparral                        d) Apparel
18. a) Commemorate                b) Comemorate  
c) Comemoratte                 d) Comammorete
19. a) Racommend                  b) Recomend  
c) Recammend                  d) Recommend
20. a) Monastry                    b) Monestary  
c) Monastery                    d) Monastary

**Directions :** Read the passage carefully. Select the right answer from the options provided.

Nehru was a many-sided personality. He enjoyed reading and writing books as much as he enjoyed fighting political and social evils or resisting tyranny. In him the scientist and the humanist were held in perfect balance. While he kept looking at social problems from a scientific standpoint, he never forgot that we should nourish the total man. As a scientist, he refused to believe in a benevolent power interested in men's affairs; but, as a self-proclaimed pagan, he loved affirming his faith in life and beauty of nature. Children he adored. Unlike Wordsworth he did not see them trailing clouds of glory from their recent sojourn in heaven. He saw them as blossoms of promise and renewal, the only hope for mankind.

21. According to the passage, Nehru was a  
a) Sociologist

- b) Self-proclaimed leader
- c) Balanced personality
- d) Confused personality

22. The passage suggests that Nehru had faith in \_\_\_\_\_

- a) Paganism
- b) Heaven
- c) Nature
- d) Religion

23. According to the writer, Nehru believed in \_\_\_\_\_

- a) Scientific progress
- b) The total man
- c) Children
- d) English poets

24. Nehru's views of children was \_\_\_\_\_

- a) Compassionate
- b) Optimistic
- c) Sympathetic
- d) Scientific

25. The word 'sojourn' in the passage means \_\_\_\_\_

- a) Departure
- b) Return
- c) Stay
- d) Arrival

**Directions : Choose the correct alternative to fill in the blank.**

26. The explosion that \_\_\_\_\_ the bus killed twelve people.

- a) Wrecked
- b) Deflated
- c) Stalled
- d) Hindered

27. There was some \_\_\_\_\_ between the member's version and the committee's version.

- a) Discourse
- b) Discrepancy
- c) Certainty
- d) Recurrence

28. We have talked a lot; now let us \_\_\_\_\_ to work.

- a) Get down
- b) Set off
- c) Take off
- d) Sit up

29. The life-guard would not let the children \_\_\_\_\_ at the deep end of the pool.

- a) Swims
- b) Swim
- c) Swam
- d) To swim

30. The audience watched the clowns \_\_\_\_\_ their act.

- a) Performs
- b) Perform
- c) Performed
- d) Are performing

**Directions : Out of the four alternatives, choose the word which is most similar in meaning to the given word.**

31. Jest

- a) Grave
- b) Happy
- c) Humour
- d) Joy

32. Concord

- a) Faction
- b) Arm
- c) Unity
- d) Contract

33. Frail

- a) Delicate
- b) Firm
- c) Praise
- d) Weak

34. Coerce

- a) Cooperate
- b) Compel
- c) Compromise
- d) Concern

35. Thrift

- a) Swift
- b) Hunger
- c) Save
- d) Laze

36. Voluble

- a) Able
- b) Fluent
- c) Voluminous
- d) Value

37. Luminous

- a) Glow
- b) Lucid
- c) Lucky
- d) Vague

38. Onerous

- a) Burdensome
- b) Unity
- c) Single-minded
- d) Easy

39. Recoil

- a) Bounce
- b) Turn
- c) Move
- d) Throw

40. Banquet

- a) Ornament
- b) Feast
- c) Palace
- d) Table

**Directions : Out of the four alternatives, choose the word which is most opposite in meaning to the given word.**

41. Loquacious

- a) Quiet
- b) Width
- c) Space
- d) Talkative

42. Botch

- a) Mar
- b) Reform
- c) Spread
- d) Lock

43. Crisp

- a) Coherent
- c) Clear

- b) Soft
- d) Bright

44. Gusto

- a) Elan
- c) Warm

- b) Cold
- d) Quick

45. Tempest

- a) Snare
- c) Violent

- b) Calm
- d) Time

46. Yarn

- a) Tale
- c) Meat

- b) Fact
- d) Skill

47. Finesse

- a) Design
- c) Mild

- b) Blunt
- d) Sweet

48. Stealth

- a) Steal
- c) Cloak

- b) Open
- d) Force

49. Credulous

- a) True
- c) Skeptical

- b) Humour
- d) Courtesy

50. Infamy

- a) Fame
- c) Notoriety

- b) Fire
- d) Honest

## **PART - B - GENERAL KNOWLEDGE & APTITUDE**

**Marks : 100**

**Each question carries 2 marks :**

51. Which one of the following schemes provide upto Rs.2 lakhs accidental death Insurance to the people in the age group of 18-70 years ?

- a) Atal Pension Yojana
- b) Pradhan Mantri Jeevan Jyoti Bima Yojana
- c) Pradhan Mantri Suraksha Bima Yojana
- d) Atal Jeevan Beema Yojana

52. As of 2022, 61 Nobel Prizes have been awarded to 60 women as one of them received the prize twice. The first women to receive a Nobel Prize was

- a) Marie Sklodowska Curie
- b) Malala Yousafzai
- c) Mother Teresa
- d) Annie Ernaux

53. The language with the richest vocabulary is

- a) Maudarin
- b) French
- c) English
- d) Urdu

54. "Give us good mothers, and I shall give you a good nation." Who said these words ?

- a) Napoleon
- b) Abraham Lincoln
- c) Admiral Nelson
- d) Alexander, the Great

55. 'BrahMos Missile', the world's fastest Supersonic Cruise missile was jointly developed by

- a) India and Israel
- b) India and USA
- c) India and Russia
- d) India and France

56. Who among the following prominent figures of the Indian freedom movement worked tirelessly for the integration of the Indian princely states ?

- a) B.G. Tilak
- b) B.C. Pal
- c) Mahatma Gandhi
- d) Sardar Vallabhbhai Patel

57. Who was the author of the influential book, "Lay Down Your Arms" ?

- a) Jae Adams

- b) Emily Greene Balch
- c) Bertha Sophie Von Suttner
- d) Arundhati Roy

58. What is the enzyme that breaks down Lactose ?

- a) Lipase enzymes
- b) Pepsin
- c) Amylase
- d) Lactase

59. The gas released in Bhopal gas tragedy was

- a) Ammonia
- b) Methyl cyanide
- c) Nitrous oxide
- d) Methyl isocyanate

60. An electric heater of rating 1000 W is used for 5 hours per day for 20 days. What is the electrical energy utilized ?

- a) 100 KWh
- b) 200 KWh
- c) 120 KWh
- d) 500 KWh

61. A protein or polysaccharide molecule that stimulates antibody formation and induce an immune response is

- a) Antigen
- b) Antibiotics
- c) Exotoxin
- d) Endotoxins

62. If  $\div$  means  $\times$ ,  $\times$  means  $+$ ,  $+$  means  $-$  and  $-$  means  $\div$ , find the value of  $16 \times 3 + 5 - 2 \div 4$

- a) 9
- b) 10
- c) 19
- d) 21

63. A number of trees stand in a single row. One tree is seventeenth in order from both the ends. How many trees are there in a row ?

- a) 33
- b) 34
- c) 35
- d) 18

64. Kapil ranked thirteen from the top and twenty six from the bottom among those who have passed in the annual examination in a class. If six students have failed in the annual examination, how many students appeared ?

- a) 45
- b) 38
- c) 44
- d) 50

65. If A is in the North of B and C is in the West of B. In what direction is A with respect to C ?

- a) North-East
- b) East
- c) South
- d) South-West



is the first of the second ?

- a) 90%                      b)  $92\frac{6}{7}\%$   
c) 93%                      d) 85%

81. If 50 is remained on subtracting 50 from the 50% of a number then what is that number ?

- a) 100                      b) 200  
c) 150                      d) 250

82. In certain code language M = 26 and ACT = 48, then CODE is equal to

- a) 64                      b) 54  
c) 27                      d) 45

83. A is son of C while C and Q are the sisters to one another. Z is the mother of Q. If P is the son of Z, which one of the following statements is correct ?

- a) Q is the grandfather of A  
b) P is the maternal uncle of A  
c) P is the cousin of A  
d) C and P are sisters to one another

84. What will be the compound interest on Rs.2000 for 3 years at 10% per annum ?

- a) Rs.562                      b) Rs.662  
c) Rs.762                      d) Rs.462

85. If the cost of 30 metres of cloth is Rs.345, find the cost of 16 metres of this cloth.

- a) Rs.184                      b) Rs.196  
c) Rs.201                      d) Rs.300

86. A tank contains 5000 litres of water.  $\frac{3}{5}$ th of the water is distributed in a village.  $\frac{2}{5}$ th of the remaining water is distributed in another village. How much water is left in the tank ?

- a) 1500 litres                      b) 1200 litres  
c) 1000 litres                      d) 800 litres

87. Who among the following completed the construction of Qutub Minar ?

- a) Jallal-ud-din                      b) Qutub-ud-din Aibak  
c) Iltutmish                      d) Razia Sultana

88. The partition of Bengal (1905) took place during the viceroyalty of

- a) Lord Curzon                      b) Lord Chelmsford  
c) Lord Ripon                      d) Lord Minto

89. The immediate cause of the Second World War was

- a) Hitler's invasion of Soviet Union  
b) Hitler's invasion of France  
c) Hitler's invasion of Poland  
d) Hitler's invasion of Czechoslovakia

90. Which one of the following Amendments has been described as the Mini-Constitution ?

- a) 42nd                      b) 43rd  
c) 44th                      d) 52nd

91. Sikkim became a new state in the Union by which Amendment Act and in which year ?

- a) 32nd (1974)                      b) 35th (1975)  
c) 36th (1975)                      d) 37th (1975)

92. Disputes regarding the election of the President and Vice-President are settled

- a) In the Supreme Court  
b) By the Election Commission  
c) By a Parliamentary Committee  
d) In the High Court

93. While appointing a Governor, the President generally consults the Chief Minister of the state. This is

- a) Constitutionally imperative  
b) A matter of convention  
c) Because the Parliament has legislated to this effect  
d) A duty of the President

94. Which of the following rivers does not flow into the Bay of Bengal ?

- a) The Ganga                      b) The Brahmaputra  
c) Mahanadi                      d) Narmada

95. The external force required to maintain the circular motion of the body is called

- a) Centrifugal force                      b) Centripetal force  
c) Interatomic force                      d) Frictional force

96. The main problem faced by the manufacturing industries in India is the shortage of

- a) Raw materials                      b) Market  
c) Power                      d) Labour

97. The sequence of organisms which feed on one another for their survival is known as

- a) Passage of nutrients from one organism to another  
b) Food chain

- c) Trophic level
- d) Biodiversity

98. Market value of final goods and services in the country plus income earned by the Indians from foreign countries, minus income earned by the foreigners in India is called as which of the following concepts ?

- a) Gross Domestic Product
- b) Gross National Product
- c) Net Domestic Product
- d) Net National Product

99. Subsidies mean

- a) Payment by government for purchase of goods and services
- b) Payment made by business enterprises to factors of production
- c) Payment made by companies to shareholders
- d) Payment made by the government to business enterprises without buying any goods and services

100. 'Agenda 21' is a major voluntary action plan dealing with

- a) Sustainable Development
- b) Global Warming
- c) International Trade
- d) Population Growth



## PART - C - MATHEMATICS

**Marks :100**

**Each question carries 2 marks :**

**101.** If a sum on compound interest becomes three times in 4 years, then with the same rate of interest, the sum will become 27 times in

- a) 8 years                      b) 12 years  
c) 24 years                     d) 36 years

**102.** The least number which when divided by 5, 6, 7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder, is

- a) 1677                         b) 1683  
c) 2523                         d) 3363

**103.** A certain city has a circular wall around it, and this wall has four gates pointing north, south, east and west. A house stands outside the city, 3 kms north of the north gate, and it can just be seen from a point 9 kms east of the south gate. What is the diameter of the wall that surrounds the city ?

- a) 6 km                         b) 9 km  
c) 12 km                        d) None of these

**104.** An employer pays Rs.20 for each day a worker works and forfeits Rs.3 each day he is absent. At the end of 60 days, a worker gets Rs.280. For how many days did the worker remained absent ?

- a) 35                             b) 38  
c) 43                             d) 40

**105.** The cost of 4 rings and 2 bangles is Rs.57,200. What is the cost of 6 rings and 3 bangles ?

- a) Rs.95,340                    b) Rs.85,800  
c) Rs.76,600                    d) Cannot be determined

**106.** The difference between 54% of a number and 26% of the same number is 22526. What is 66% of that number ?

- a) 53097                        b) 48372  
c) 51218                        d) 49124

**107.** A canteen requires 651 bananas for a week. Totally how many bananas will it require for the months of April, May and June 2018 ?

- a) 9086                         b) 8547  
c) 9284                         d) 8463

**108.** In an examination, it is required to get 1050 of the aggregate marks to pass. A student gets 924 marks and is declared failed by 9% marks. What are the maximum aggregate marks a student can get ?

- a) 1250                         b) 1525  
c) 1400                         d) Cannot be determined

**109.** Rina invests Rs.72318, which is 17% of her annual income in mutual funds. What is her monthly income ?

- a) Rs.33,600                    b) Rs.32,990  
c) Rs.35,450                    d) None of these

**110.** If 3<sup>rd</sup> of the month falls on Friday, what day will be on the 4<sup>th</sup> day after 21<sup>st</sup> of the month?

- a) Monday                      b) Saturday  
c) Friday                        d) Tuesday

**111.** A and B together can do a piece of work in 9 days. If A does thrice the work of B in a given time, the time A alone will take to finish the work is

- a) 4 days                        b) 6 days  
c) 8 days                        d) 12 days

**112.** The diameters of two cylinders are in the ratio 3:2 and their volumes are equal. The ratio of their heights is

- a) 2:3                             b) 3:2  
c) 9:4                             d) 4:9

**113.** A trader sold a cycle at a loss of 10%. If the selling price had been increased by Rs.200, there would have been a gain of 6%. The cost price of the cycle is

- a) Rs.1,200                      b) Rs.1,205  
c) Rs.1,250                      d) Rs.1,275

**114.** In a city, 40% of the people are illiterate and 60% are poor. Among the rich, 10% are illiterate. The percentage of the illiterate poor population is

- a) 36                             b) 60  
c) 40                             d) 50

**115.** In a triangle PQR, the side QR is extended to S.  $\angle QPR^\circ = 72^\circ$  and  $\angle PRS^\circ = 110^\circ$ , then

the value of  $\angle PQR$  is

- a)  $38^\circ$                       b)  $32^\circ$   
c)  $25^\circ$                       d)  $29^\circ$

116. When a number is divided by 56, the remainder will be 29. If the same number is divided by 8, then the remainder will be

- a) 6                              b) 7  
c) 5                              d) 3

117. If a shopkeeper marks his goods for a certain amount so as to get 25% gain after allowing a discount of 20%, then his marked price is

- a) Rs.156.25                      b) Rs.146.25  
c) Rs.166.25                      d) Rs.150.25

118. The average of marks of 17 students in an examination was calculated as 71. But it was later found that the marks of one student had been wrongly entered as 65 instead of 56 and another as 24 instead of 50. The correct average is

- a) 70                              b) 71  
c) 72                              d) 73

119. If  $\theta$  is a positive acute angle and  $5\cos\theta + 12\sin\theta = 13$  then the value of  $\cos\theta$  is

- a)  $12/13$                               b)  $5/13$   
c)  $5/12$                               d)  $1/5$

120. The angle of elevation of a pillar from the foot and top of the building 20m high, are  $60^\circ$  and  $30^\circ$  respectively. The height of the pillar is

- a) 10m                              b) 10.5m  
c) 60m                              d) 30m

121. Carmel started cycling along the boundaries of a square field from corner point A. After half an hour he reached the corner point C, diagonally opposite to A. If his speed was 8 km/hour, what is the area of the field in square kilometers ?

- a) 64                              b) 8  
c) 4                              d) Cannot be determined

122. The number of solid steel balls each of radius 2cm that can be made by melting a sphere of radius 8cm is

- a) 4                              b) 16  
c) 32                              d) 64

123. The number of students in each section of

a school is 24. After admitting new students, three new sections were started and now the total number of sections is 16 and there are 21 students in each section. The number of new students admitted is

- a) 24                              b) 14  
c) 48                              d) 64

124. The total of three consecutive even numbers is 36 more than the average of these three numbers. Which of the following is the second of these three numbers ?

- a) 16                              b) 20  
c) 18                              d) Data inadequate

125. The ratio of Wanti's age to Zora's age is 4:5 and the sum of their ages is 81. What will be the ratio after 9 years ?

- a) 6:5                              b) 5:4  
c) 5:6                              d) 3:4

126. If 5 men take 15 hours to harvest a crop, then 7 women will do the same job in how many hours, given that a man does 40% more work as compared to the work done by a woman ?

- a) 15 hours                              b) 20 hours  
c) 18 hours                              d) None of these

127. 40 men can build a wall 20m high in 15 days. Then how many men are required to build a similar wall 25m high in 6 days ?

- a) 100                              b) 125  
c) 150                              d) 200

128. A started with Rs.4,500 and B joined afterwards with Rs.3,000. If the profits at the end of one year were divided in the ratio 2:1 respectively, then B would have joined A for business after how many months ?

- a) 1 month                              b) 2 months  
c) 3 months                              d) 4 months

129. Aman got twice as many marks in English as in Science. His total marks in English, Science and Maths are 180. If the proportion of his marks in English and Maths is 2:3, what are his marks in Science ?

- a) 45                              b) 90  
c) 30                              d) 60

130. What is 40% of a number whose 200% is 90 ?

- a) 16                              b) 36

c) 45

d) 18

131. Out of two candidates who had contested for an election, one candidate who got 60% of the total valid votes was elected by a margin of 1800 votes. What was the total number of valid votes ?

a) 4500

b) 3000

c) 5500

d) None of these

132. The difference between the compound interest and simple interest earned at the end of second year on a sum of money at the rate of 10% per annum is Rs.20. What is the sum ?

a) Rs.4,000

b) Rs.2,000

c) Rs.1,500

d) None of these

133. Out of a sum of Rs.625, a part was lent at 5% and the other at 10% simple interest. If the interest on the first part after two years is equal to the interest on the second part after 4 years, then the second sum is equal to

a) Rs.125

b) Rs.250

c) Rs.200

d) Rs.300

134. A train starts from station X at the speed of 60 km/hour and reaches station Y in 45 minutes. If the speed is reduced by 6 km/hour, how much more time will the train take to return from station Y to X ?

a) 5 minutes

b) 7 minutes

c) 10 minutes

d) 12 minutes

135. A boy walks to school at the rate of 3 km/hour and reaches school at 9.35 a.m. Then he walks at 5 km/hour and reaches at 9.25 a.m. If his school time is 9.30 a.m., how far is his school from his house ?

a) 2 km

b) 2.5 km

c) 1.25 km

d) 1.5 km

136. In what ratio must rice at Rs.9.30 per kg be mixed with rice of Rs.10.80 per kg so that the mixture be worth Rs.10 per kg ?

a) 5:6

b) 6:5

c) 8:7

d) 7:8

137. A wheel makes 1000 revolution in covering a distance of 88 kms. What is the radius of the wheel ?

a) 14m

b) 18m

c) 24m

d) 30m

138. The digit in the unit's place of the product  $81 \times 82 \times 83 \times \dots \times 89$  is

a) 0

b) 2

c) 4

d) 6

139. The value of  $0.\overline{57}$  is

a)  $57/10$

b)  $57/99$

c)  $26/45$

d)  $52/9$

140.

$$\frac{3}{4} \left(1 + \frac{1}{3}\right) \left(1 + \frac{2}{3}\right) \left(1 - \frac{2}{5}\right) \left(1 + \frac{6}{7}\right) \left(1 - \frac{12}{13}\right) \text{ is}$$

simplified to

a)  $1/5$

b)  $1/6$

c)  $1/7$

d) None of these

141. The ratio of Rose's and Jane's ages is 3 : 5 respectively. After ten years this ratio will become 2 : 3. What is Rose's age in years ?

a) 50

b) 40

c) 60

d) Cannot be determined

142. Number of students who have opted for the subjects A, B and C are 60, 84 and 108 respectively. The examination is to be conducted for these students such that only the students of the same subject are allowed in one room. Also the number of students in each room must be same. What is the minimum number of rooms that should be arranged to meet all these conditions ?

a) 28

b) 60

c) 12

d) 21

143. A watch dealer incurs an expense of Rs.150 for producing every watch. He also incurs an additional expenditure of Rs.30,000 which is independent of the number of watches produced. If he is able to sell a watch during the season, he sells it for Rs.250. If he fails to do so, he has to sell each watch for Rs.100. If he is able to sell only 1200 out of 1500 watches he has made, then he has made a profit of

a) Rs.90,000

b) Rs.75,000

c) Rs.45,000

d) Rs.60,000

144. A report consists of 20 sheets each of 55 lines and each such line consists of 65 characters. This report is reduced onto sheets each of 65 lines such that each line consists of 70 characters. The percentage reduction in number of

sheets is closest to

- a) 20%
- b) 5%
- c) 30%
- d) 35%

145. Three maths classes X, Y and Z take an algebra test. The average score of class X is 83. The average score of class Y is 76. The average score of class Z is 85. The average score of class X and Y is 79 and average score of class Y and Z is 81. What is the average score of classes X, Y and Z ?

- a) 81.5
- b) 80.5
- c) 83
- d) 78

146. My brother is 3 years elder to me. My father was 28 years of age when my sister was born while my mother was 26 years of age when I was born. If my sister was 4 years of age when my brother was born, then, what was the age of my father and mother respectively when my brother was born ?

- a) 32 years, 23 years
- b) 32 years, 29 years
- c) 35 years, 29 years
- d) 35 years, 33 years

147. An alloy contains copper and zinc in the ratio 9 : 4. The zinc required to be melted with 24 kg of copper is

- a)  $10\frac{2}{3}$  kg
- b)  $10\frac{1}{3}$  kg
- c)  $9\frac{2}{3}$  kg
- d) 9 kg

148. 10 men can complete a piece of work in 15 days and 15 women can complete the same work in 12 days. If all the 10 men and 15 women work together, in how many days will the work get completed ?

- a) 6 days
- b)  $6\frac{1}{3}$  days
- c)  $6\frac{2}{3}$  days
- d)  $7\frac{2}{3}$  days

149. Two trains, each 100m long moving in opposite directions, cross each other in 8 seconds. If one is moving twice as fast as the other, then the speed of the faster train is

- a) 30 km/hr
- b) 45 km/hr

- c) 60 km/hr
- d) 75 km/hr

150. A trader owes a merchant Rs.10,028 due 1 year hence. The trader wants to settle the account after 3 months. If the rate of interest as 12% per annum, how much should he pay ?

- a) Rs.9025.20
- b) Rs.9200
- c) Rs.9600
- d) Rs.9560

\*\*\*\*\*