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.	505619	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 :-

   Ⓐ Ⓑ ⓒ Ⓓ

   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 :-

   Ⓐ Ⓑ ● Ⓓ

   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.

IOT-21

PART - A - GENERAL ENGLISH

Marks : 100

Each question carries 2 marks :

Directions : (Q No. 1-10) In these questions, some of the sentences have errors and some have none. Find out which part of a sentence a, b, c has an error. If there is no error then d is the answer.

1. Even such a strong man (A) / like him (B) / cannot lift the box (C) / No error (D)

2. Clark spent many years (A) / of his studies (B) / exploring the meaning of the life (C) / No error (D)

3. We were (A) / no interested (B) / in what they were selling (C) / No error (D)

4. Too great (A) / a variety of subjects (B) / strain the mind (C) / No error (D)

5. The ship (A) / was drowned (B) / in the sea (C) / No error (D)

6. The rain (A) / was accompanied (B) / by a hailstorm (C) / No error (D)

7. Scarcely (A) / had she gone (B) / than he arrived (C) / No error (D)

8. You are (A) / a mechanic (B) / isn't it ? (C) / No error (D)

9. Donald loves (A) / eating pizza (B) / and to watch television (C) / No error (D)

10. He spoke (A) / a lie and said me (B) / a liar (C) / No error (D)

Directions : (Q No. 11-20) In these questions, four alternatives are given for the given idiom / phrase. Choose the alternative which best expresses the meaning of the given idiom / phrase.

11. In less than no time
a) instantly   b) slowly
c) never   d) gradually

12. Tick one's wounds.
a) to feel unhappy at falling sick
b) to feel unhappy at having to undergo an operation
c) to feel unhappy after a defeat
d) to feel unhappy after failing in the exam

13. The law of the jungle
a) survival of the cruel
b) survival of the fittest
c) survival of the honest
d) survival of the loyal

14. Red tape
a) social formality
b) family formality
c) unofficial formality
d) official formality

15. With might and main
a) with intelligence
b) with full strength
c) with vengeance
d) with happiness

16. Fall back on
a) to use something in difficulty
b) to drop something
c) to go forward
d) to go back

17. To be in deep water
a) to drown
b) to swim
c) to be in difficulty
d) to be attacked

18. A hidden agenda
a) an undisclosed destination
b) an undisclosed objective
c) an undisclosed relationship
d) an undisclosed travel plan

19. To keep a stiff upper lip
a) to be selfish
b) to be unfriendly
c) to be enthusiastic
d) to be unmoved by unsettling events

20. Lose one's marbles
a) go crazy
b) become poor
c) become old
d) realize one's mistake

Directions : (Q No. 21-30) In these questions out of the four alternatives given, choose the one which best expresses the meaning of the underlined word.

21. In order to make the programme <u>sustainable</u> several steps have been taken.
a) weak
b) effective
c) harmful
d) participatory

22. These officials are <u>apathetic</u> to the problems of the old people.
a) indifferent
b) interested
c) hospitable
d) friendly

23. He was <u>ushered</u> in by the butler.
a) introduced
b) thrown in
c) led
d) pushed

24. It is not <u>discreet</u> for us to oppose him.
a) pleasant
b) practicable
c) pitiable
d) prudent

25. He is always surrounded by his <u>coterie</u> .
a) officials
b) co-workers
c) friends
d) family

26. The entire idea of revenge is <u>inconceivable</u>.
a) cruel
b) selfish
c) ruthless
d) unimaginable

27. Malaria has been the <u>scourge</u> of humanity since the earliest times.
a) affliction
b) companion
c) eradication
d) extension

28. He has <u>amassed</u> a lot of wealth.
a) earned
b) collected
c) hidden
d) owned

29. Mountaineering is a <u>perennial</u> source of joy.
a) continuous
b) seasonal
c) annual
d) periodic

30. There is a lot of <u>disparity</u> between her income and expenditure.
a) similarity
b) continuity
c) connectivity
d) difference

Directions : (Q No. 31-40) In these questions out of the four alternatives given, choose the one which is opposite in meaning of the underlined word.

31. The situation is extremely <u>volatile</u>.
a) serious
b) unstable
c) stable
d) moderate

32. His dishonesty is a <u>blemish</u> on his character.
a) defect
b) imperfection
c) compliment
d) praise

33. I tried to <u>salvage</u> my relationship with my friend.
a) save
b) rescue
c) destroy
d) ignore

34. She was <u>perturbed</u> by the incident.
a) soothed
b) disturbed
c) confused
d) angered

35. We listened with <u>rapt</u> attention to the lecture.
a) enthusiastic
b) distracted
c) full
d) sympathetic

36. He has been <u>exonerated</u> by the court.
a) accused
b) praised
c) excused
d) commended

37. It is a <u>heartrending</u> sight.
a) disappointing
b) cruel
c) pitiable
d) delightful

38. My friend has reached the <u>nadir</u> of her hopes.
a) zenith
b) depth
c) bottom
d) midst

39. Her effort at a compromise has been <u>welcomed</u> .
a) accepted
b) embraced
c) ridiculed
d) spurned

40. Her enthusiasm for the project is <u>unbridled</u>.
a) dangerous
b) weary
c) restrained
d) scary

Directions : (Q No. 41-50) In the following questions, sentences are given with blanks to be filled with an appropriate and suitable

word. **Four alternatives are suggested for each question. Choose the correct alternative out of the four.**

41. This statement is uncalled ____.
a) from   b) for
c) to   d) by

42. He ____ me a fool.
a) calls   b) says
c) said   d) told

43. I want to ____ my pencil.
a) mend   b) improve
c) sharpen   d) blunt

44. He is occupied ____ his books.
a) in   b) by
c) within   d) with

45. I can walk three miles ____
a) at a stretch   b) in continuity
c) at arm's length   d) at large

46. He has five ____
a) brother-in-laws   b) brother-by-laws
c) brothers-in-law   d) brothers in arms

47. He had the rank of ____
a) a captain   b) the captain
c) this captain   d) captain

48. You can ____ this opportunity.
a) took   b) take on
c) take over   d) take

49. The two of them are fast ____.
a) friends   b) enemies
c) rivals   d) relatives

50. Thank you for your ____.
a) advise   b) advice
c) advices   d) advising

PART - B -GENERAL KNOWLEDGE & APTITUDE

Marks : 100

Each question carries 2 marks :

51. The United Nations is considered as a universal organisation. Which organ of the United nations fully represents this fact ?
a) The General Assembly
b) The Security Council
c) The Secretariat
d) The Economic and Social Council

52. Sunlight provides
a) Vitamin A to the body
b) Vitamin B to the body
c) Vitamin C to the body
d) Vitamin D to the body

53. Non-stick cooking utensils are coated with
a) Black paint   b) Polythylene
c) Polystyrene   d) Teflon

54. Who among the following Congress leaders was called the 'Grand Old Man' of India
a) Mahatma Gandhi
b) Bal Gangadhar Tilak
c) Dadabhai Noaroji
d) Madan Mohan Malaviya

55. Lock-down due to COVID-19 pandemic has led growers in Netherlands to destroy hundred of millions of which flower ?
a) Tulip   b) Rose
c) Chrysanthemum   d) Sunflower

56. Jallianwala Bagh Garden is located in which Indian city ?
a) Jallandhar   b) Amritsar
c) Chandigarh   d) Ludhiana

57. Meghalaya experienced President's Rule for the first time during
a) 11.10.1991 to 05.02.1992
b) 11.10.1993 to 05.02.1994
c) 11.10.1994 to 05.02.1995
d) 11.10.1997 to 05.02.1998

58. Beira a major port and is also the second largest city of which country ?
a) Brazil   b) France
c) Srilanka   d) Mozambique

59. How many times pugilist MC Mary Kom has won Gold Medal in Boxing tournament ?
a) 3 times   b) 4 times
c) 5 times   d) 6 times

60. In a particular Indian society, a widow could marry the younger brother of her deceased husband. This system is known as
a) Niyoga   b) Aghanya
c) Soma   d) Yajna

61. The study of the universe is known as
a) Epistemology   b) Cosmology
c) Psychology   d) Pathology

62. Under which Article that the Constitution of India has allowed the Supreme Court to issue the writs for the enforcement of Fundamental Rights ?
a) Article 42   b) Article 112
c) Article 32   d) Article 12 (a)

63. In the Indian Constitution, which of the following is a part of the Legislature, even though he / she does not sit in the Parliament
a) Foreign Minister
b) Prime Minister
c) President
d) Chief Election Commissioner

64. The latest demonetisation of large currency notes in India took place in
a) 2001   b) 2011
c) 2016   d) 2017

65. The main objective of the Memorandom of Understandings (MoUs) is to
a) reduce the quantity of control
b) increase the quantity of control
c) increase the quality and accountability
d) reduce the quantity of control and increase the quality of accountability

66. The external force required to maintain the circular motion of the body is called
a) centripetal force   b) atomic force
c) centrifugal force   d) moment

67. The property of a substance to absorb moisture from the air on exposure is called
a) Osmosis   b) Efflorescence
c) Deliquescence   d) Condensation

68. The modern Periodic Law was given by
a) Mendeleev   b) Moseley
c) Laviosier   d) Stark

69. The study of effect of low temperature on organisms and their preservation is called
a) Cytology   b) Bateriology
c) Cryobiology   d) Clone

70. The tradition to lit the Olympic flame was started in Amsterdam Olympic games in
a) 1920   b) 1924
c) 1928   d) 1932

71. India's Devedra created a history in winning Gold Medal for the country in Athens Paralympics in 2004 in
a) Athletics   b) Archery
c) Swimming   d) Javelin Throw

72. Who among the following is called as the Father of Modern Computer ?
a) Lady Ada Augusta   b) Herman Holorith
c) Howard Ekin   d) Charles Babbage

73. Pressure cooker is fast in cooking rice because
a) high pressure crushes the hard covering of rice grains
b) it always let the steam escape
c) high pressure raises the boiling point of water
d) it does not let the heat energy escape easily

74. When do we say "Human wants are unlimited
a) the rich you are, the richer you want to become
b) the more you have a thing, the more you want it
c) man is basically creedy
d) when one need is satisfied the other crops up

75. Who said "Cowardice and Ahimsa do not go together any more than water and fire
a) Acharya Vinoba Bhave
b) Acharya Narendra Dev

c) Jayaprakash Narayan
d) Mahatma Gandhi

Each question carries 2 marks :

76. Rakesh walks 10m to south after walking 20m to east. After this he walks 5m north after walking 35m to west. Then he walks 15m to east. What is shortest distance between the starting point and the terminal point ?
a) 0m   b) 5m
c) 10m   d) 20m

77. In the following series, what should come in place of ?
        8, 10, 14.5, 22.5, 35, 53, ?
a) 36   b) 54.25
c) 65   d) 77.5

78. A spherical ball of radius 3cms is melted and recast in to three balls. The radius of two of the balls are 1.5cm and 2cm. Find the diameter of the third ball.
a) 10cm   b) 2.5cm
c) 4cm   d) 5cm

79. The compound interest accrued on an amount at the end of three years @ 15% per anum is Rs.6500.52. What is the amount ?
a) Rs.12480   b) Rs.10500
c) Rs.15000   d) Rs.18000

80. A car runs at a speed of 40 kms per hour when not serviced and runs at 65 kms/hr when serviced. After servicing the car covers a certain distance in 5 hours. How much approximate time will the car take to cover the same distance when not serviced ?
a) 10   b) 7
c) 12   d) 8

81. A train running at a speed of 60 kmph crosses a platform double its length in 32.4 seconds. What is the length of the platform ?
a) 180m   b) 240m
c) 360m   d) 90m

82. The average of five positive numbers is 308. The average of the first two numbers is 482.5 and the average of the last two numbers 258.5. What is the third number ?
a) 224   b) 58
c) 121   d) 146

83. The length of a rectangle exceeds its breadth by 7cms. If the length is decreased by 4cms and the breadth is increased by 3 cms, then the area of the new rectangle will be the same as the area of the original rectangle. What will be the perimeter of the original rectangle ?
a) 45cms
b) 40cms
c) 50cms
d) 55cms

84. Area of a rectangle is equal to the area of the circle whose radius is 21cm. If the length and breadth of the rectangle are in the ratio of 14:11 respectively, what is its perimeter ?
a) 142cm
b) 140cm
c) 132cm
d) 150cm

85. A person puts on simple interest Rs.500 for 4 years and Rs.600 for 3 years and altogether receives Rs.190 as interest. What is the rate per-cent per anum ?
a) 8%
b) 6%
c) 5%
d) 4%

86. In a regiment the number of the officers to soldiers was 3:31 before the battle. In the battle 6 officers and 22 soldiers were killed and the ratio became 1:13. Find the number of officers and soldiers in the regiment.
a) 21 and 217
b) 27 and 237
c) 31 and 313
d) 21 and 257

87. The sum of the digits of two digit numbers is 12. If the new number is formed by reversing the digits is greater than the original number by 54, what will be the value of the original number?
a) 28
b) 48
c) 39
d) 93

88. What will be in place of the '?' in the following number series ?
9 11 16 26 ? 69
a) 40
b) 43
c) 41
d) 42

89. 5% of one of the number X is 25% more than another number Y. If the difference between the numbers is 96, find the value of X.
a) 90
b) 100
c) 96
d) 92

90. When 2 is added to both the numerator and denominator of a possible fraction, the fraction

thus obtained is 3/5. If the denominator is 6 more than the numerator, what is the original value of the denominator ?
a) 3
b) 23
c) 13
d) 18

91. A can finish a piece of work in 30 days. He worked alone for 3 days and B joined him. Together they could finish the remaining work in 9 days. In how many days B alone can finish the same piece of work ?
a) 10
b) 15
c) 14
d) 18

92. The selling price of 9 chairs and 5 tables is Rs.3790 and that of 3 chairs and 2 tables is Rs.1390. What is the selling price of 3 tables ?
a) Rs.1140
b) Rs.1320
c) Rs.1200
d) Rs.1800

93. The catalogue price of an article is Rs.250. A reduction of 12% is made for cash purchase. The cash price is
a) Rs.250
b) Rs.220
c) Rs.200
d) Rs.180

94. The profit earned after selling an article for Rs.1754 is the same as loss incurred after sell-ing the article for Rs.1492. What is the cost price of the article ?
a) Rs.1623
b) Rs.1523
c) Rs.1689
d) Rs.1700

95. Pankaj started a business investing Rs.42000. After 4 months Nitin joined with a capital of Rs.57000. At the end of the year the total profit was Rs.26000. What is the differ-ence between the share of profits of Pankaj and Nitin ?
a) Rs.1200
b) Rs.1300
c) Rs.1400
d) Rs.1800

96. If the total cost of four tubelights and three bulbs is Rs.260 and the ratio between the cost of a tubelight and a bulb is 5:2 respectively, what is the total cost of one tubelight and six bulbs ?
a) Rs.210
b) Rs.130
c) Rs.180
d) Rs.170

97. Sum of square of first number and cube of second number is 568 together. Also square of the second number is 15 less than square of 8. What is the value of three-fifth of the first num-

ber ? (assuming both the numbers are positive)
a) 18   b) 8
c) 9   d) 16

98. Find the least number that must be sub-
tracted from 6156 to make it a perfect square?
a) 72   b) 85
c) 90   d) 100

99. Samir's age is 1/4 of his father's age and 2/
3 of his sister Reema's age. What is the ratio of
the age of Samir, Reema and their father re-
spectively ?
a) 3:2:8   b) 3:4:8
c) 2:3:8   d) 4:3:8

100. If + means x, - means ÷ , x means -, and
÷ means +, the value of 6 + 5 ÷ 5 - 3 x 6 = ?
a) 77/3   b) 79/3
c) 100/3   d) 122/3

Each question carries 2 marks :

101. A man walks 6 km at a speed of $1\frac{1}{2}$ km/h, runs 8 km at a speed of 2 km/h and goes by bus another 32 km. Speed of the bus is 8 km/h . If the speed of the bus is considered as the speed of the man, then the average speed of the man is

a) $5\frac{2}{3}$ km/h   b) $3\frac{5}{6}$ km/h

c) $3\frac{4}{5}$ km/h   d) $5\frac{4}{5}$ km/h

102. A motor cyclist travels from Mumbai to Pune a distance of 192 km at an average speed of 32 km/h. Another man starts from Mumbai by travelling in a car, $2\frac{1}{2}$ hours after the cyclist and reaches Pune half an hour earlier. The ratio of the speeds of the cyclist and the car is
a) 1 : 2   b) 2 : 3
c) 2 : 5   d) 4 : 9

103. A motor boat can travel at 10 km/h in still water. It travels 91 km downstream in a river and then return to the same place taking altogether 20 hours. Find the rate of flow of the river
a) 2 km/h   b) 5 km/h
c) 4 km/h   d) 3 km/h

104. In a km race A beats B by 100m and C by 200m. By how many metres can B beat C in a race of 1350m ?
a) 200m   b) 150m
c) 100m   d) 120m

105. One year ago the ratio between the ages of A and B was 4 : 3, one year hence the ratio will be 5 : 4. The sum of their present ages is
a) 35 years   b) 30 years
c) 16 years   d) 20 years

106. The average age of 30 boys in a class is 15 years. One boy aged 20 years left the class and two new boys came in his place whose ages differ by 5 years. If the average age of all the boys in the class still remains 15 years, then the age of the younger new comer is
a) 16 years   b) 10 years
c) 20 years   d) 15 years

107. In what time will Rs.1200 earn an interest of Rs.240 at 5%
a) 4 years   b) 3 years
c) 2 years   d) 5 years

108. If Rs.1000 be invested at interest rate of 5% and the interest be added to the principal every 10 years, then the number of years in which it will amount to Rs.2000 is

a) $14\frac{2}{3}$ years   b) $16\frac{3}{4}$ years

c) $16\frac{2}{3}$ years   d) 16 years

109. A man gets a simple interest of Rs.1000 on a certain principal at the rate of 5% per annum in 4 years. What compound interest will the man get on twice the principal in two years at the same rate ?
a) Rs.1150   b) Rs.1025
c) Rs.1060   d) Rs.1050

110. What should come in place of the question mark in the following number series ?
12, 33, 96, ?, 852, 2553
a) 285   b) 286
c) 260   d) 280

111. A hollow cylinder of height 3cm, is recasted into a solid cylinder. If the external and internal radii of the hollow cylinder are 4.3 cm and 1.1cm respectively, then the radius of the solid cylinder is
a) 2.2cm   b) 2.8cm
c) 2.6cm   d) 2.4cm

112. What would be the cost of laying a carpet on a floor which has its length and breadth in the ratio 32 : 21 and where its perimeter is 212 feet, if the cost per square foot of laying the carpet is

Rs.2.5 ?
a) Rs.6720   b) Rs.8050
c) Rs.6850   d) Rs.7050

113. A playground is in the shape of a rectangle. A sum of Rs.1000 was spent to make the ground usable at the rate of 25 paise per square metre. The breadth of the ground is 50m. If the length of the ground is increased by 20m, what will be the expenditure in rupees at the same rate per m² ?
a) Rs.1500   b) Rs.1250
c) Rs.1850   d) Rs.2000

114. If the digits of a two-digit number are interchanged then the sum of the new number and the original number is always divisible by
a) 9   b) 11
c) 3   d) 33

115. The sum of the squares of two consecutive even numbers is 6500. Which is the smaller?
a) 56   b) 54
c) 48   d) 46

116. The sum of two positive numbers is 24 and their product is 143. The sum of their squares is
a) 302   b) 296
c) 290   d) 304

117. The L.C.M. of two numbers is 495 and their H.C.F. is 5. If the sum of the two numbers is 100 then their difference is
a) 25   b) 35
c) 20   d) 10

118. The least number which leaves remainders 2, 3 and 4 when divided by 4, 5 and 6 respectively is
a) 58   b) 48
c) 54   d) 56

119. The largest number of five digits which is a perfect square is
a) 99791   b) 98456
c) 99856   d) 98746

120. If $\dfrac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}} = a+b\sqrt{6}$ then the values of a and b are

a) $\dfrac{2}{5}, \dfrac{3}{15}$ b) $\dfrac{3}{5}, \dfrac{4}{9}$

c) $\dfrac{4}{15}, \dfrac{3}{8}$ d) $\dfrac{3}{5}, \dfrac{4}{15}$

121. If $a+\dfrac{1}{a} = 5$, then the value of $a^3 + \dfrac{1}{a^3}$ is
a) 120   b) 110
c) 25   d) 125

122. If $37\dfrac{1}{2}\%$ of a number is 45 then $87\dfrac{1}{2}\%$ of the number is
a) 105   b) 120
c) 115   d) 125

123. If A's income is 25% less than that of B then how much percent is B's income more than that of A ?

a) $23\dfrac{1}{3}\%$ b) $33\dfrac{1}{3}\%$

c) $27\dfrac{1}{2}\%$ d) $34\dfrac{1}{2}\%$

124. The average monthly salary of a staff of 9 persons is Rs.2450. One member of the staff whose monthly salary is Rs.2650 is transferred. Find out the average salary of the remaining 8 persons of the staff.
a) Rs.2450   b) Rs.2565
c) Rs.2425   d) Rs.3450

125. Three years ago the average age of a family of 5 members was 17 years. With the birth of a new baby, the average age remains the same even today. The age of the baby is

a) $1\dfrac{1}{2}$ year   b) 1 year

c) $2\dfrac{1}{2}$ years   d) 2 years

126. The average temperature from Monday to Thursday is 48°C and from Tuesday to Friday is 52°C. If the temperature on Monday is 42°C. What is the temperature on Friday ?
a) 49°C   b) 58°C
c) 53°C   d) 45°C

127. The average contribution of 5 men to a fund is Rs.35. A sixth men joins and pays Rs.35

more than the resultant average contribution of 6 men. The contribution of the sixth man is
a) Rs.95   b) Rs.80
c) Rs.77   d) Rs.84

128. Two numbers are in the ratio 4:9. If the larger number is 35 more than the smaller number, then the product of the numbers is
a) 1864   b) 1564
c) 1764   d) 1724

129. A bag contains one rupee, 50 paise and 25 paise coins in the ratio 2:3:5. Their total value is Rs.144. The value of 50 paise coins is
a) Rs.36   b) Rs.40
c) Rs.35   d) Rs.48

130. There are 3 sections A, B, C in class II of a school. The ratio of the numbers of students in section A and B is 3:5 and that in B and C is 4:7. If the total number of students in the class be 201, then the number of students in section A is
a) 56   b) 40
c) 36   d) 70

131. In a school, the ratio of boys to girls is 4:5. If 100 girls leave the school the ratio becomes 6 : 7. How many boys are there in the school ?
a) 1400   b) 1500
c) 2400   d) 1200

132. Three persons divide an amount of Rs.2800 amongst themselves in the ratio 5 : 6 : 3 respectively. Is Rs.200 is added to each of their shares, the new ratio of their shares of the amount is
a) 6 : 7 : 4   b) 6 : 8 : 2
c) 3 : 4 : 1   d) 4 : 7 : 6

133. A man buys 10 articles for Rs.8 and sells them at Rs.1.50 per article. His gain percentage is
a) 85%   b) 87.5%
c) 78.5%   d) 79%

134. A shopkeeper sells an article at a gain of 10%. Had he sold it at a loss of 20%, its selling price would have been Rs.180 less. The cost price of the article is
a) Rs.600   b) Rs.550
c) Rs.500   d) Rs.650

135. A man sells a scooter to his friend at 10% loss. If the friend sells it for Rs.54000 and gains 20%, find out the original cost price of the scooter.
a) Rs.65000   b) Rs.60000
c) Rs.50000   d) Rs.55000

136. A man sells two houses at the rate of Rs.1.995 lakhs each. On one house he gains 20% and on the other he loses 20%. His gain or loss percent in the whole transaction is
a) 5% gain   b) 5% loss
c) 4% gain   d) 4% loss

137. A trader sells 145 metres of cloth for Rs.12325 at the profit of Rs.10 per metre of cloth. What is the cost price of 1 metre of cloth?
a) Rs.65   b) Rs.75
c) Rs.70   d) Rs.80

138. A man bought a second hand machine for Rs.1200 and spent Rs.200 on its repairs. He sold it for Rs.1680. His profit percent is
a) 30%   b) 15%
c) 20%   d) 25%

139. If the cost price of an item is $\dfrac{2}{5}$ of its market price and if it is sold at a discount of 10%, then there will be
a) 125% gain   b) 80% gain
c) 98% loss   d) 90% gain

140. A man and a boy receive Rs.800 as wages for 5 days for the work they did together. The man's efficiency in the work was three times that of the boy. What are the daily wages of the boy ?
a) Rs.80   b) Rs.70
c) Rs.50   d) Rs.40

141. A can do $^1/_3$ of the work in 5 days and B can do $^2/_5$ of the work in 10 days. In how many days both A and B together can do the work ?
a) $8\dfrac{3}{4}$ days   b) $9\dfrac{3}{8}$ days
c) $10\dfrac{3}{5}$ days   d) $13\dfrac{2}{3}$ days

142. A and B can complete a piece of work in 6 days, and A alone can complete it in 9 days. The time taken by B alone to complete the work is

a) 15 days   b) 16 days
c) 18 days   d) 20 days

a) 20 seconds   b) 8 seconds
c) 10 seconds   d) 9 seconds

143. A works thrice as good as B and is therefore able to finish a piece of work in 60 days less than B. Find the time in which they can complete it working together.

a) $22\dfrac{1}{2}$ days   b) 20 days

c) $24\dfrac{1}{2}$ days   d) 30 days

150. Two trains are running in opposite directions with the same speed. If the length of each train is 135m and they cross each other in 18 seconds, the speed of each train is

a) 35 km/h   b) 30 km/h
c) 27 km/h   d) 25 km/h

144. A man, a woman and a boy can together complete a piece of work in 3 days. If a man alone can do it in 6 days and a boy alone can do it in 18 days, how many days will a woman alone take to complete the work ?
a) 10 days   b) 12 days
c) 15 days   d) 9 days

145. 7 men can complete a piece of work in 12 days. How many additional men will be required to complete double the work in 8 days ?
a) 10   b) 14
c) 12   d) 8

146. A pipe can empty a cistern in 40 minutes.

The time in which $\dfrac{3}{4}$ of the cistern will be emptied is

a) 20 minutes   b) 30 minutes
c) 24 minutes   d) 32 minutes

147. A tap can fill a cistern in 8 hours and another can empty it in 16 hours. If both the taps are opened simultaneously, find the time (in hours) to fill the cistern
a) 14 hours   b) 10 hours
c) 16 hours   d) 20 hours

148. A tank is normally filled with water in 10 hours, but takes 5 hours longer to fill due to leakage at the bottom. If the tank is full then the leak will empty the tank in
a) 30 hours   b) 15 hours
c) 20 hours   d) 25 hours

149. A 135m long train is running with a speed of 54 km/hour. In what time will it cross a telegraph post ?

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