

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

QUESTION BOOKLET

SERIES IV

Subjects : General English, General Knowledge & Aptitude, Mathematics

BOOKLET SERIAL NO.

304360

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) (C) (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 (Q 1 - 20) 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 alternatives out of the four.

1. He finds delight _____ books.
a) from b) in
c) through d) with
2. Do not discriminate _____ the poor.
a) against b) about
c) by d) with
3. The truth at last dawned _____ him.
a) to b) by
c) for d) on
4. Will you give me _____ water ?
a) little b) much
c) many d) some
5. I took shelter in the _____ house.
a) nearby b) nearest
c) near d) nearer
6. What is the _____ news ?
a) late b) lately
c) latest d) later
7. She is a good student _____ she is sometimes careless.
a) except b) excepting
c) except that d) except at.
8. He received _____ urgent message.
a) the b) an
c) a d) that
9. He always speaks the truth. _____ I like him.
a) Therefore b) although
c) Besides d) Nevertheless
10. I am in _____ of your advice.
a) demand b) want

- c) requirement d) need
11. There is no _____ when he will come
a) knowledge b) know
c) knowing d) known
12. Im going _____ next month.
a) foreign b) international
c) outside d) abroad
13. You have finished your homework _____.
a) didn't you? b) haven't you?
c) hasn't you? d) wasn't it?
14. Your sister is a nurse _____.
a) isn't it? b) wasn't it?
c) wasn't she d) isn't she?
15. My father _____ home last week.
a) left off b) went back
c) made out d) came down
16. He will have to _____ his mistakes.
a) pay to b) pay off
c) pay for d) pay over
17. The thieves _____ in a stolen jeep.
a) made out b) made up
c) made off d) made over
18. He is not _____ well.
a) staying b) showing
c) keeping d) maintaining
19. I cannot conceive _____ such cruelty.
a) on b) of
c) about d) for
20. The man was shocked because _____
his son was a thief.
a) he was told b) he was telling
c) he tried to tell d) he once told.

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.** The food is extremely bland.

- a) insipid b) detached
c) mix d) delicious

22. The boy has fabricated the entire story :

- a) formulated b) imagined
c) concocted d) assembled.

23. The journey is going to be a hazardous one.

- a) safe b) comfortable
c) ordinary d) risky.

24. His explanation of the situation is ambiguous.

- a) obscure b) uncertain
c) doubtful d) detached.

25. My neighbours have an ostentatious lifestyle.

- a) plain b) outrageous
c) unusual d) extravagant

26. She sent me a cryptic message.

- a) mean b) puzzling
c) clear d) angry.

27. The old lady has reached the nadir of her hopes.

- a) top b) bottom
c) middle d) floor.

28. The character in the novel is a thorough profligate

- a) moral person
b) a criminal
c) a thief
d) a wild and licentious person.

29. After being rude to her mother, the young girl is remorseful.

- a) repentant b) revengeful
c) angry d) apologetic.

30. He tended the saplings with great care.

- a) watched b) ignored
c) neglected d) looked after.

Directions : (Q. No. 31 - 40) In these questions four alternatives are given for each idiom/phrase. Choose the alternative which best expresses the meaning of the given idiom/phrase.

31. Child's play

- a) very easy b) very attractive
c) very childish d) very quick

32. Wolf in sheep's clothing

- a) a close friend
b) an unintelligent friend
c) a bitter enemy
d) an enemy posing as a friend

33. To bring down the house

- a) to demolish
b) to talk loudly
c) to get a big applause
d) to get a gift

34. The law of the jungle

- a) survival of the fittest
b) to be the strongest
c) to live in a forest
d) to fight

35. To bury the hatchet

- a) to obtain money
b) to make friends
c) to keep a secret
d) to make peace

36. Watch his step

- a) behave with caution
b) observe the floor
c) walk carelessly
d) watch his friends

37. small talk

- a) When children talk
b) talking in a low voice
c) ordinary social talk
d) talking about politics

38. Thorn in my side

- a) injury in the stomach
b) a rose bush
c) a rough path
d) a constant source of annoyance

39. Throw dust in our eyes

- a) to deceive
b) to show the way
c) to lead someone by the hand
d) to become blind.

40. Weather the storm

- a) to overcome difficulties
- b) to fight physically
- c) to challenge
- d) to use a raincoat

Directions : (Q No. 41 - 50) In these questions out of the four alternatives given choose the one which is opposite in meaning of the underlined word :

41. Her dress is too garish for my liking.

- a) colourful
- b) gaudy
- c) sober
- d) transparent.

42. There is a derelict building on the way.

- a) magnificent
- b) stately
- c) horrible
- d) desolate.

43. The attorney wanted him to be exonerated.

- a) recommended
- b) accused
- c) forgiven
- d) transferred.

44. You cannot impose your decision in an arbitrary manner.

- a) dictatorial
- b) unreasonable
- c) reasonable
- d) cruel.

45. The new recruit is a complete greenhorn in this field.

- a) expert
- b) novice
- c) fool
- d) egoist.

46. My friend is devoid of emotions.

- a) empty
- b) deprived
- c) condemned
- d) filled

47. The students retaliated when they were attacked.

- a) plundered
- b) submitted
- c) enforced
- d) revealed.

48. Nothing could be salvaged when the building collapsed.

- a) recovered
- b) neglected
- c) avoided
- d) destroyed.

49. The advancing forces have been vanquished.

- a) failed
- b) won
- c) lost
- d) surrendered.

50. The reluctance of the officer is obvious.

- a) eagerness
- b) hesitation
- c) enjoyment
- d) unwillingness.

PART - B - GENERAL KNOWLEDGE & APTITUDE

Marks : 100

Each question carries 2 marks :

51. The sweet taste of fruits is due to

- a) Maltose b) Ribose
- c) Lactose d) Fructose

52. In a bid to harbor good relations between countries, the state-owned English Channel, DD India, will now be available in Bangladesh and _____. Can you guess where?

- a) South Korea b) Afghanistan
- c) China d) Indonesia

53. Chlorophyll is a bio-molecule containing

- a) Magnesium b) Calcium
- c) Iron d) Tin

54. Which of the following solvents is used in refrigeration and is known culprit of Ozone layer depletion ?

- a) Benzene
- b) Chlorofluorocarbon
- c) Carbon tetrachloride
- d) Chloroform

55. Dadasaheb Phalke Award is given in our country for excellence in which of the following fields?

- a) Sports b) Cinema
- c) Literature d) Scientific research.

56. A simple sequence in which grass grows, a cow eats the grass, a human eats the cow or drinks its milk, is an example of

- a) Food chain b) Food web
- c) Food cycle d) Food pyramid.

57. On the Moon, an astronaut cannot drink lemonade with the help of a straw because

- a) Acceleration due to gravity on the Moon is less.
- b) There is no atmosphere on the Moon.
- c) Lemonade evaporates instantaneously on the Moon
- d) Surface of Moon is not smooth.

58. National Mathematics Day is celebrated on 22nd December every year to commemorate the birth anniversary of

- a) Aryabhatta
- b) S. Ramanujan
- c) Sir C.V. Raman
- d) Maulana Abul Kalam Azad

59. A jeweler wants to sell a necklace for Rs. 179.95 next week at a 60% off sale. How much should the price of the necklace be this week?

- a) Rs. 71.98 b) Rs 251.93
- c) Rs. 299.92 d) Rs. 449.88

60. Quantity A

$$(-1)^5$$

Quantity B

$$(2/3)^2$$

- a) Quantity A is greater
- b) Quantity B is greater
- c) The two quantities are equal.
- d) The relationship cannot be determined from the given information.

61. Which is equal to $5-3 \{6-(-2)\} \div 4$?

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

62. If PEACE is coded as RGCEG then how is MICKEY coded in the code?

- a) MOUSE b) OKEMA
- c) LHBXJ d) JDLJI

63. The famous Chinese pilgrim Fa-hien visited India during the reign of

- a) Chandragupta I; b) Chandragupta II;
- c) Ramagupta; d) Samudragupta

64. Tripitakas are the sacred books of the

- a) Jains; b) Hindus;
- c) Muslims; d) Buddhists.

65. Mohenjo-Daro is situated in

- a) The province of Sind in Pakistan.
- b) In the State of Gujarat in India.
- c) In the State of Punjab in India.
- d) In Afghanistan.

66. The first Satyagraha campaign of Gandhiji was started at

- a) Champaran b) Bordoli
- c) Dandi d) Baroda.

67. Hunter Commission was appointed by the

British to probe into the

- a) Bardoli Satyagraha
- b) Khilafat Agitation
- c) JallianwalaBagh tragedy
- d) ChauriChaura incident.

68. Who was the Chairman of the Drafting Committee of the Indian Constitution?

- a) J.B. Kripalini
- b) Rajendra Prasad
- c) J.L. Nehru
- d) B.R. Ambedkar.

69. What is the unit of measurement of the distances of Stars from the earth?

- a) Light Year
- b) Fathoms
- c) Nautical miles
- d) Kilometres

70. The longest day in Australia will be on

- a) June 21
- b) September 22
- c) December 22
- d) March 23

71. Each of the five friends - A, B, C, D and E - has his/her birthday on a different day of the week from Monday to Friday. A will be celebrating his birthday on the day next to that of E's birthday. B will be celebrating his birthday on Friday. D's birthday is not on Monday. On which of the following days C's birthday cannot fall?

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Thursday

72. Mark this sentence: "The young couple was incompatible and did not see eye to eye on many things." The underlined part of the sentence is an idiomatic phrase. Identify the correct meaning of the idiomatic phrase from the following options:

- a) Think or act sensibly.
- b) Be blond to each other's faults.
- c) Betray each other.
- d) Not share the same views.

73. If Tarun is Anu's son, Anu and Geeta are sisters, Sushma is Geeta's mother and Pankaj is the son of Sushma, then which of the following statements will be correct?

- a) Geeta and Pankaj are sisters.
- b) Pankaj is the Maternal uncle of Tarun.
- c) Geeta is Tarun's grandmother.
- d) Pankaj and Tarun are cousins.

74. Find the next number in the series: 1, 6, 12,

19, 27, __

- a) 38
- b) 35
- c) 36
- d) 54

75. Six persons: I, II, III, IV, V and VI are sitting in two rows, three in each row such that V is not at the end of any row.

IV is second to the left of VI

III is the neighbor of V, is sitting diagonally opposite to IV

II is the Neighbor of VI

Which of the following are in one of the two rows?

- a) IV, II and VI
- b) III, V and II
- c) I, V and VI
- d) VI, II and III.

76. In a certain code LONDON is written as MPOEPO. What will IVOHSZ mean in the same code?

- a) HUNGRY
- b) HUNDRY
- c) GRUNHY
- d) HONDUS

77. Certain letters are coded as: FIRST - 36509, TOP - 154, MORE - 4837 and MERIT as 83579, then what is the code for 'R'?

- a) 8
- b) 3
- c) 9
- d) 7

78. In a certain language, (i) 'FOR' stands for 'Old is gold'; (ii) 'ROT' stands for 'Gold is Pure'; (iii) 'ROM' stands for 'gold is Costly'. How will 'Pure Old Gold is Costly' be written?

- a) TFROM
- b) FOTRM
- c) FTORM
- d) TOMRF

79. In a certain code language (i) 'pic vicnic' stand for 'winter is cold'; (ii) 'to nic re' for 'summer is hot'; (iii) 're pic boo' for 'winter and summer' and (iv) 'vic tho pa' for 'nights are cold'. Which of the following words is the code for 'Summer'?

- a) nic
- b) boo
- c) to
- d) re

80. The sentence given below has a part missing. Choose the best option from those given below the statement to make the missing part.

"There can be no two opinions that ours is one of the largest countries of the world and ----- --".

- a) and we have been blessed with natural resources that are not only rich but varied.
- b) and it has been blessed with natural resources

that are rich and varied.

c) and it had been blessed with natural resources that are rich and varied.

d) and it has been with natural resources which are rich and variable.

81. Platinum is costlier than silver because it is

- a) Rarely found b) whiter than silver
- c) More in demand d) Lighter than silver

82. A Student gets on bus at 8.15 a.m. at 1 km from home. He gets off the bus at 8.25 a.m. at 5 km from home. What is the average speed of the bus?

- a) 15 kmph b) 30 kmph
- c) 24 kmph d) 40 kmph

83. Breathing gets difficult at greater heights because

- a) Of the lack of oxygen at places of higher altitudes.
- b) The person is tired by the time he reaches his destination.
- c) The person is suffering from asthma.
- d) The air of places at greater heights is polluted.

84. A person's blood pressure is normally lower in the morning because

- a) He has had a good sound sleep.
- b) The person ate a light dinner and slept early.
- c) It is a natural biological rhythm.
- d) Blood pressure of person generally increases from morning to noon to evening to night.

85. If 5% of one number, X, is 25% more than another number, Y, and the difference between the two numbers is 96, the number X is

- a) 90 b) 120
- c) 92 d) 100

86. A grandfather willed his four grandsons (A, B, C and D) should inherit his collection of 7665 gold coins in the following manner: A should get $\frac{2}{3}$ rd of the number of gold coins that B gets. B should get $\frac{4}{5}$ th the number of gold coins that C gets. C should get $\frac{6}{7}$ th the number of gold coins that D gets. How many gold coins would A get?

- a) 1068 b) 1268
- c) 1168 d) 1468

87. Brajesh, Jayesh, Amar and Praveer are playing cards. Amar is to the right of Jayesh who is to

the right of Brajesh. Who is to the right of Amar?

- a) Brajesh b) Praveer
- c) Either Brijesh or Jayesh d) Jayesh.

88. Pointing to Snehal, Mahesh said, 'Her mother's only daughter is my daughter'. How is Mahesh related to Snehal?

- a) Brother b) Uncle
- c) Son d) Father

89. Radhika moved a distance of 80 meters towards North. She then turned to the left and after walking for another 20 meters, turned to the left again. She walked for another 80 metres. Finally she turned to the right at an angle of 45° . In which direction was she moving finally?

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

90. Five personalities are living in a multistoried building. Mr. Effortless lives in a flat above Mr. Active, Mr. Charge lives in a flat below Mr. Diligent. Mr. Active lives in a flat above Mr. Diligent and Mr. Behaved lives in a flat below Mr. charge. Who lives in the topmost flat?

- a) Mr. Charge b) Mr. Diligent
- c) Mr. Effortless d) Mr. Behaved.

91. Winter rains in North-Western India are caused by

- a) Westerly depressions
- b) Retreating Monsoon
- c) Tidal winds
- d) South westerly Monsoons.

92. During the period of the South-West Monsoon, Tamil Nadu remains dry because

- a) The winds do not reach this area.
- b) There are no mountains in the area
- c) It lies in the rain shadow area.
- d) The temperature is too high to let the winds cool down.

93. The International Olympic Committee (IOC) opened in 2015 its new headquarters on the 125th anniversary of the Olympic Games revival. Where is it located?

- a) United States of America
- b) Greece
- c) Switzerland
- d) France

94. When did Alexander invade India?

- a) 298 BC b) 303 BC
- c) 302 BC d) 327 BC

95. The English Novelist, George Orwell, known for his classics such as 'Animal Farm', 'Nineteen Eighty-Four', etc. was born on 25th June 1903 in

- a) Dacca, Bangladesh b) Motihari, India
- c) Mumbai, India d) Lahore, Pakistan

96. The greatness of Sher Shah lies in his

- a) Victory against Humayun
- b) Superior generalship
- c) Administrative reforms
- d) Secular attitude.

97. India recently opened her first ever hospital and water clinic for elephants. Where is it Located?

- a) Mathura b) Kaziranga
- c) Hyderabad d) Agra

98. In which one of the following bio-graphical regions, the biodiversity hotspot, Caribbean Island is found?

- a) Africa`
- b) North and Central America
- c) South America
- d) Europe and Central Asia.

99. Environmental degradation is the deterioration of the environment through

I. Depletion of resources such as air, water and soil.

II. Destruction of Ecosystem.

III. Progressive increase in wild life.

IV. Extinction of wild life.

- a) I, II and III; b) I, II and IV;
- c) I only; d) I and IV only

100. Six persons P, Q, R, S, T and Q are sitting around a circular table, not necessarily in the same order, such that

I. R is to the immediate right of T

II. P is exactly between S and U

III. U is immediate left of Q.

If the above statements are true, then who among the following is the immediate neighbor of S on her left?

- a) P b) Q
- c) R d) U

PART - C - MATHEMATICS

Marks :100

Each question carries 2 marks :

101. In an election of two candidates, the candidate who gets 41% is rejected by a majority of 2412 votes. The total number of votes polled are:

- a) 12100 b) 13400
- c) 14700 d) 16200

102. Two numbers are respectively 30% and 40% less than a third number. What percent is the second of the first?

- a) $65\frac{4}{5}\%$ b) $85\frac{5}{7}\%$
- c) $75\frac{1}{5}\%$ d) $89\frac{4}{5}\%$

103. A shopkeeper marks the price of his goods 12% higher than its original price. After that, he allows a discount of 12%. What is his percentage profit or loss?

- a) 14.4% loss b) 14.4% profit
- c) 1.44% profit d) 1.44% loss

104. A shopkeeper marks the prices at 15% higher than the original price. Due to increase in demand, he further, increases the price by 10%. The profit earned by the shopkeeper is: .

- a) 26.5% b) 25.5%
- c) 24.6% d) 26.4%

105. If one of the sides of the rectangle is increased by 20% and the other is increased by 5%. Then the percentage change in its area is:

- a) 20% b) 24%
- c) 26% d) 30%

106. The average age of a family of 6 members in 22 years. If the age of the youngest member be 7 years, then what was the average age of the family at the birth of the youngest member?

- a) 10 years b) 12 years
- c) 15 years d) 18 years

107. In a class, there are 20 boys whose average age is decreased by 2 months, when one boy aged 18 years is replaced by a new boy. Then the age of the new boy is:

- a) 14 years 8 months
- b) 12 years 6 months

- c) 15 years 4 months
- d) 16 years 2 months

108. The ratio of the ages of the father and the son at present is 6 : 1. After 5 years the ratio will become 7 : 2. The present age of the son is:

- a) 5 years b) 4 years
- c) 6 years d) 9 years

109. The sum of the ages of a mother and her daughter is 50 years. Also 5 years ago, the mother's age was 7 times the age of the daughter. The present age of the mother is:

- a) 30 years b) 35 years
- c) 40 years d) 45 years

110. A grocer sells rice at a profit of 10% and uses a weight which is 20% less. Then his total percentage gain is:

- a) 22.5% b) 37.5%
- c) 45.7% d) 51.7%

111. A person sells an article at a profit of 10%. If he had bought it at 10% less and sold at Rs. 3 more, he would have gain 25%. The cost price of the article is:

- a) Rs. 90 b) Rs. 110
- c) Rs. 120 d) Rs. 150

112. The greatest number which is such that when 76,151 and 226 are divided by it leaves the same remainder is:

- a) 60 b) 75
- c) 80 d) 90

113. Three bells commence tolling together and they toll after 0.25, 0.1 and 0.125 seconds. After what interval will they again toll together?

- a) 0.5 seconds b) 0.25 seconds
- c) 1 seconds d) None of the above

114. After taking out of a purse $\frac{1}{5}$ of its contents, $\frac{1}{12}$ of the remainder was found to be Rs. 7.40 What sum did the purse contain at first?

- a) Rs. 91 b) Rs. 81
- c) Rs. 101 d) Rs. 111

115. A train starts full of passengers. At the first station, it drops one-third of these and takes 96

more. At the next, it drops one-half of the new total and takes in 12 more. On reaching the next station, there are found to be 248 left. Then the number of passengers when the train started are:

- a) 484 b) 504
c) 526 d) 564

116. The last digit in the expansion of $41^n - 1$ is:

- a) 2 b) 1
c) 0 d) None of above

117. A wholesaler sells 30 pens for the price of 27 pens to a retailer. The retailer sells the pens at the marked price. Then the percentage profit of the retailer is:

- a) $11\frac{1}{9}\%$ b) $13\frac{2}{9}\%$
c) $18\frac{2}{5}\%$ d) $21\frac{1}{3}\%$

118. The rate of interest for the first 2 years is 3% per annum, for the next 3 years is 8% per annum and for the period beyond 5 years is 10% per annum. If a man gets Rs. 1520 as a simple interest for 6 years, how much money did he deposit?

- a) Rs. 2200 b) Rs. 2780
c) Rs. 3150 d) Rs. 3800

119. A sum was put at Simple Interest at a certain rate for 2 years. Had it been put at 3% higher rate, it would have fetched Rs.300 more. Then the sum invested is:

- a) Rs. 1750 b) Rs. 2500
c) Rs. 4500 d) Rs. 5000

120. The difference between the compound interest and the simple interest on a certain sum of money at 5% per annum for 2 years is Rs. 1.50. The sum is:

- a) Rs. 400 b) Rs. 550
c) Rs. 600 d) Rs. 850

121. An amount of money grows upto Rs. 4840 in 2 years and upto Rs. 5324 in 3 years compound interest. The rate percent is:

- a) 10% b) 12%
c) 15% d) 18%

122. A mixture of a certain quantity of milk with 16 litres of water is worth Rs. 0.90 per litre. If pure milk be worth Rs. 1.08 per litre, how

much milk is there in the mixture?

- a) 60 litres b) 80 litres
c) 90 litres d) 110 litres

123. There are 65 students in a class. Rs. 39 are distributed among them so that each boy gets Rs. 0.80 and each girl gets Rs. 0.30. Then the number of boys and girls in the class are:

- a) 39 boys; 26 girls b) 27 boys; 38 girls
c) 50 boys; 15 girls d) 35 boys; 30 girls

124. 40 men can cut 60 trees in 8 hours. If 8 men leave the job, how many trees will be cut in 12 hours?

- a) 48 trees b) 64 trees
c) 72 trees d) 80 trees

125. If 3 men or 4 women can reap a field in 43 days, how long will 7 men and 5 women take to reap it?

- a) 8 days b) 10 days
c) 12 days d) 15 days

126. A certain number of men can do a work in 60 days. If there were 8 men more, it could be finished in 10 days less. How many men are there?

- a) 20 men b) 25 men
c) 30 men d) 40 men

127. A is twice as good a workman as B. Together; they finish the work in 14 days. In how many days can it be done by A?

- a) 12 days b) 16 days
c) 18 days d) 21 days

128. A can do a work in 6 days and B can do the same work in 5 days. The contract for the work is Rs 220. How much shall B get if both of them work together?

- a) Rs. 120 b) Rs. 150
c) Rs. 90 d) Rs. 110

129. Two pipes A and B can fill a cistern in 1 hour and 1 hour 15 minutes respectively. There is also an outlet C. If all the three pipes are opened together, the tank in full in 50 minutes. The time taken by C to empty the full tank is:

- a) 1 hour 10 minutes b) 1 hour 30 minutes
c) 1 hour 40 minutes d) 1 hour 45 minutes

130. A boy walking at a speed of 10 km/hr reaches his school 15 minutes late. Next time

he increases his speed by 2km/hr, but still he is late by 5 minutes. Then the distance of his school from his house is:

- a) 10 km b) 15 km
c) 20 Km d) 30 km

131. The distance between two stations, Delhi and Amritsar is 450 km. A train starts at 4 p.m. from Delhi and moves towards Amritsar at an average speed of 60 km/hr. Another train starts from Amritsar at 3.20 p.m. and moves towards Delhi at an average speed of 80 km/hr. Then the two trains will meet at:

- a) 5.30 p.m. b) 6.50 p.m.
c) 7.15 p.m. d) 7.50 p.m.

132. Two runners cover the same distance at the rate of 15 km and 16 km per hour respectively. The distance they travelled when one takes 16 minutes longer than the other is:

- a) 48 km b) 56 km
c) 64 km d) 72 km

133. A man can row 7 km/hr in still water. In a stream which is flowing at 3 km/hr, it takes him 7 hours to row to a place and back. How far is the place?

- a) 6 km b) 10 km
c) 12 km d) 20 km

134. A hall whose length is 16 metres and breadth twice its height, takes 168 metres of paper 2 metres wide for its four walls. The area of the floor is:

- a) 144 sq. Metres
b) 192 sq. Metres
c) 220 sq. Metres
d) 260 sq. Metres

135. Two poles 15 metres and 30 metres high stand upright in a playground. If their feet be 36 meters apart, the distance between their tops is:

- a) 39 m b) 54 m
c) 66 m d) 89 m

136. In a school 45% of the students play cricket, 30% play hockey and 15% play both. Then the percentage of students who play neither cricket nor hockey is:

- a) 50 b) 30
c) 60 d) 40

137. A person was appointed in the pay scale of

Rs 700-40-1500. He will reach the maximum of the scale in:

- a) 10 years b) 14 years
c) 21 years d) 25 years

Directions (Q 138-139): The following table shows India's rice export.

Year	Quantity (in Lakh Kg)	Value (in Crore Rupees)
2014	110	230
2015	95	210
2016	125	340
2017	130	430
2018	200	450

138. In which year the value per kg is maximum?

- a) 2018 b) 2017
c) 2016 d) 2014

139. If the price of rice were to go up by 40% in the year 2018 and the quantity of rice exported to fall by 30%, would have been India's earning from rice export in this condition?

- a) 441 crore
b) 438 crore
c) 460 crore
d) None of the above

140. If $x + \frac{1}{x} = 3$ then the value of $x^8 + \frac{1}{x^8}$ is:

- a) 2207 b) 2127
c) 2397 d) 2947

141. A boy was asked to find $\frac{7}{9}$ of a fraction. He made a mistake of dividing the fraction by $\frac{7}{9}$ and so got the answer which exceeded the correct answer by $\frac{8}{21}$. The correct answer must be:

- a) $\frac{7}{12}$ b) $\frac{3}{12}$
c) $\frac{5}{24}$ d) $\frac{9}{32}$

142. $4^{61} + 4^{62} + 4^{63} + 4^{64} + 4^{65}$ is divisible by:

- a) 3 b) 5
c) 11 d) 17

143. The remainder when $7^{13} + 1$ is divided by 6 is

- a) 3 b) 1

c) 2

d) 7

144. How many quadrilaterals can be formed by joining the vertices of an octagon?

a) 40

b) 50

c) 60

d) 70

145. A can do a piece of work in 12 days. B is 60% more efficient than A. Then the number of days that B takes to do the same piece of work is:

a) $5\frac{1}{2}$ days

b) $7\frac{1}{2}$ days

c) $9\frac{1}{2}$ days

d) $10\frac{1}{2}$ days

146. Rs. 425 is divided among 4 men, 5 women and 6 boys such that the share of a man, a woman and a boy may be in the ratio of 9 : 8 : 4. What is the share of a woman?

a) Rs 34

b) Rs. 54

c) Rs. 64

d) Rs. 70

147. If 30 men do a piece of work in 27 days, in what time can 18 men do another piece of work 3 times as great?

a) 135 days

b) 140 days

c) 160 days

d) 185 days

148. A mixture contain milk and water in the ratio of 8 : 3. On adding 3 litres of water, the ratio of milk to water becomes 2 : 1. The quantity of milk and water in the mixture are:

a) 16 litres and 6 litres respectively

b) 32 litres and 12 litres respectively

c) 40 litres and 15 litres respectively

d) 24 litres and 9 litres respectively

149. A and B enter into a partnership for a year. A contributes Rs. 1500 and B Rs. 2000. After 4 months they admit C, who contributes Rs. 2250. If B withdraws his contribution after 9 months, how would they share the profit of Rs. 900 at the end of the year?

a) Rs. 100

b) Rs. 150

c) Rs. 225

d) Rs. 300

150. A and B invested in the ratio 3 : 2 in a business. If 5% of the total profit goes to charity and A's share is Rs. 855, then the total profit is:

a) Rs. 1200

b) Rs. 1350

c) Rs. 1500

d) Rs. 1750
