

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

QUESTION BOOKLET SERIES IV

Subject : General English, General Knowledge & Aptitude, Arithmetic

BOOKLET SERIAL NO.

Marks : 300

171340

Time : 3 (three) hours

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

INSTRUCTIONS TO CANDIDATES

1. This booklet contains **175 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 : 75 questions and Part-C-Arithmetic : 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: (Q.No. 1-10) 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.

1 Get a second wind

- a) become deflated again
- b) face another drawback
- c) get more energy after being tired
- d) get second hand information

2 In dire straits

- a) in the mood for music
- b) in a bad situation
- c) caught in traffic
- d) in a happy mood

3. He is afraid of his own shadow

- a) easily frightened
- b) quite brave
- c) courageous only when it suits him
- d) very shy

4. What she said was all Greek to me, means

- a) I am highly suspicious of what she said
- b) I don't understand anything she said
- c) I found her talk inspiring
- d) what she said hits the nail on the head

5. To be a Good Samaritan means

- a) to be a good physician
- b) to be a good adviser
- c) to be a good listener
- d) to be a kind and compassionate person

6. The issue became a hot potato for the government. A hot potato means

- a) old and ugly
- b) a boring issue
- c) a controversial issue
- d) none of the above

7. Dead as a door nail

- a) not really dead
- b) not really important
- c) unconscious
- d) completely dead

8. to feel under the weather means

- a) feel ill or tired
- b) feel angry
- c) feel worried
- d) feel bored

9. Thick as thieves means

- a) not very smart
- b) plotting
- c) evil
- d) close friends

10. It costs an arm and a leg means

- a) very expensive
- b) quite cheap
- c) it is priceless
- d) none of the above

Directions: (Q.No. 11-20) In these questions out of the four alternatives given, choose the one which best expresses the meaning of the underlined word :

11. Officials were keen to **discern** how much public support there was

- a) demonstrate
- b) show-off
- c) observe
- d) write

12. Many roll their eyes when he speaks because he indulges in **hyperbole** in his speech

- a) exaggeration
- b) understatement
- c) boredom
- d) indifference

13. I'd rather be a happy fool than a sad **sage**

- a) joker
- b) wise man
- c) flower
- d) old man

14. The army were successful in **quelling** the

rebellion

- a) suppressing b) provoking
c) agitating d) helping

15. He knew that all he needed was a bit of luck to clinch the deal

- a) settle b) lose
c) break d) crush

16. Everyone was moved when she read out the elegy she had written for her friend who died last week

- a) essay b) poem
c) letter d) book

17. The judges had a tough time winnowing the finalists from the long list of contestants

- a) accepting b) separating
c) including d) mixing

18. The team captain was relegated to play as a substitute

- a) demoted b) promoted
c) volunteered d) addressed

19. Poverty is the touchstone of friendship

- a) test b) abuse
c) acceptance d) libation

20. He was commended for his actions

- a) praised b) insulted
c) jeered d) noticed

Directions: (Q.No. 21-30) 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.

21. It was _____ proudest moment of my life

- a) a b) one of
c) the d) an

22. I _____ visiting her this summer

- a) shall not b) will be
c) going d) will not

23. When I reached the station, the bus _____

- a) was left b) had left
c) about to leave d) has left

24. By the end of the decade scientists _____ discovered a cure for Cancer

- a) have b) will have
c) would have d) should have

25. He claims he never _____ the lime-light.

- a) seek b) sought
c) sought d) was sought

26. _____ I known you were coming I would have baked a cake

- a) should b) would
c) had d) shall

27. Neither Tom _____ Mary speaks Spanish

- a) or b) and
c) but d) nor

28. Men know where they _____ born, not where they shall die

- a) was b) were
c) shall be d) had

29. John went to the movies _____ he had a lot of work to do

- a) in spite of b) and
c) although d) none of the above

30. Cook is _____ today for being one of Britain's most famous explorers

- a) recommended b) reminded
c) recognised d) remembered

Directions: (Q.No. 31-35) In these questions out of the four alternatives given, choose the one which is opposite in meaning of the underlined word :

31. These years mark the zenith of his illustrious career as a businessman

- a) median b) nadir

- c) peak d) top
32. The mother had to **cajole** her little boy to go to school
 a) threaten b) flatter
 c) coax d) entice

33. His words stamped him to be a **bigot**
 a) prejudiced b) sectarian
 c) tolerant d) giant

34. You either opt out or **plod** on and make the most of it
 a) sprint b) trudge
 c) lumber d) loiter

35. After three hours of **intermittent** rain, the game was abandoned
 a) fragmentary b) sporadic
 c) random d) continuous

Directions: (Q.No. 36-40) In these questions, some of the sentences have errors and some have none. Find out which part of a sentence a, b, c, d has an error and select that part as an answer. If there is no error, then (D) is the answer.

36. On behalf of the company (a) / and myself (b) / I want to thank all of you for your support (c) / No error (d)

37. I will (a) / call on you (b) / before I leave (c) / No error (d)

38. He called me (a) / as (b) / a fool (c) / No error (d)

39. This is the House (a) / Jack (b) / was born in (c) / No error (d)

40. She was (a) / died a couple (b) / of years ago (c) / No error (d)

Directions: (Q.No. 41-50) fill in the blanks with the appropriate preposition from the options given :

41. After payment, you will receive the product _____ 10 business days
 a) during b) inside
 c) within d) over

42. We should do this _____ the benefit of all.
 a) for b) above
 c) with d) of

43. He is quite unconcerned _____ other people's opinions
 a) on b) against
 c) with d) none of the above

44. Each group was ruled _____ a chief
 a) with b) over
 c) by d) from

45. I met Jane _____ a party during the weekend
 a) by b) at
 c) in d) with

46. We often go out _____ a meal when mother feels tired of cooking
 a) in b) as
 c) along d) for

47. His wife works _____ a receptionist in the hotel
 a) in b) by
 c) as d) at

48. I got _____ my car and drove away in anger
 a) in b) into
 c) to d) along

49. I don't get _____ with my new partner, he's very arrogant
 a) along b) over
 c) on d) against

50. We regret that we cannot comply _____ your request.
 a) along b) over
 c) with d) against

PART - B - GENERAL KNOWLEDGE & APTITUDE

Marks :100

Each question carry 1 mark :

51. The Keibul Lamjoa, the only floating National Park in the world is in

- a) Meghalaya b) Mizoram
c) Manipur d) Assam

52. Which Union Territory in India has two districts but none of its districts has common boundary with its other districts ?

- a) Puducherry
b) Chandigarh
c) Dadra and Nagar Haveli
d) Andaman and Nicobar Island

53. Who said "man is a social animal" ?

- a) Plato b) Aristotle
c) Rousseau d) Laski

54. Which amongst the following is one of the books by Bill Gates ?

- a) Business at the Speed of Thought
b) The Google Story
c) Net and Internet
d) The World is flat

55. The endangered species are listed in what colour data book ?

- a) Blue b) Red
c) Black d) Yellow

56. Which one of the following ancient monuments in Delhi is not a World Heritage Monument ?

- a) Jantar Mantar b) Qutub Minar
c) Red Fort d) Humayun's Tomb

57. Who among the following is known as the guardian of the Public Purse in India ?

- a) The Comptroller and Auditor General
b) The President
c) The Minister of Finance
d) The Parliament

58. How many Articles are there in the Indian Constitution ?

- a) 395 b) 396
c) 397 d) 398

59. Minimum age of the candidate for contesting Rajya Sabha election is

- a) 25 years b) 21 years
c) 30 years d) 35 years

60. How many languages have been recognised by the Constitution ?

- a) 13 b) 14
c) 15 d) 22

61. The number of Anglo-Indians who can be nominated by the President to the Lok Sabha

- a) 2 b) 3
c) 4 d) 5

62. The Attorney-General of India is appointed by

- a) The Chief Justice of India
b) The Prime Minister
c) The President of India
d) The UPSC

63. The total number of members of the Legislative Council can in no case be less than

- a) 40
b) 50
c) 60
d) No minimum strength can be fixed

64. The maximum strength of the Legislative Assembly of a State is

- a) 400 b) 450
c) 500 d) 525

65. Who among the following can participate in the proceedings of both the Houses of Parliament ?

- a) Vice-President b) Solicitor-General
c) Chief-Justice d) Attorney-General

66. Which one of the following was a journal brought out by Abdul Kalam Azad ?

- a) Al-Hilal b) Comrade
c) The Indian Sociologist d) Zamindar

67. Who among the following was the first Bhakti saint to use Hindi for the propagation of his message ?

- a) Dadu b) Kabir
c) Ramananda d) Tulsidas

68. The Arya Samaj was founded in 1875 at Bombay by

- a) Raja Rammohan Roy
b) Ishwar Chandra Vidyasagar
c) Dayanand Saraswati
d) Lala Lajpat Rai

69. India's largest Buddhist monastery is in

- a) Arunachal Pradesh
b) Himachal Pradesh
c) Odisha
d) Madhya Pradesh

70. Which of the following rivers does not flow through Arunachal Pradesh ?

- a) Barak b) Lohit
c) Subansiri d) None of these

71. Which one among the following South Asian countries has the highest population density ?

- a) Nepal b) India
c) Pakistan d) Sri Lanka

72. The Tabo Monastery is located in the State of

- a) Arunachal Pradesh
b) Himachal Pradesh
c) Sikkim
d) Andhra Pradesh

73. Which among the following has the world's largest resource of Uranium ?

- a) Australia b) Canada
c) USA d) South Africa

74. Which are the materials generally employed as solders in soldering operations in electronics ?

- a) Iron and tin b) Lead and tin

- c) Aluminium & lead d) Aluminium & Iron

75. The Zoological survey of India is located at which of the following places ?

- a) New Delhi b) Hyderabad
c) Bangalore d) Calcutta (Kolkatta)

76. Karbi Tribes are settled in which of the following States of India ?

- a) Assam b) Mizoram
c) Tripura d) Meghalaya

77. The Dronacharya Award is associated with?

- a) Eminent Surgeons b) Famous artiste
c) Sports coaches d) Expert engineers

78. Which of the following countries is the first country in the world to propose a carbon tax for its people to address global warming ?

- a) Australia b) Germany
c) Japan d) New Zealand

79. Bank Rate refers to the interest rate at which of the following ?

- a) Deposits received by the commercial banks from the public
b) Loans given to the commercial banks by the Central Bank
c) Government loans floated
d) Loans granted by commercial banks to their customers.

80. Charles Correa is distinguished in which of the following fields ?

- a) Western Music b) Painting
c) Ballet d) Architecture

81. The present Member of Parliament in Rajya Sabha from Meghalaya is

- a) Wansuk Syiem b) Vincent Pala
c) Conrad Sangma d) None of the above

82. Sarvatra Sarvottam Suraksha is the motto of which government security agency ?

- a) BSF b) CISF
c) ITBP d) DNSE

83. How many Nobel Prize awards are

awarded each year ?

- a) 5
- b) 6
- c) 7
- d) 8

84. Who among the following Nobel laureates was not a recipient of the Nobel Prize for Peace?

- a) Norman Ernest Borlaug
- b) Woodrow Wilson
- c) Sir Winston Churchill
- d) Linus C Pauling

85. The United Nations University is located at

- a) Tokyo
- b) Geneva
- c) New York
- d) London

86. The headquarter of the World Trade Organisation is located at

- a) Rome
- b) Geneva
- c) Washington DC
- d) New York

87. The six official languages of the UN are Russian, Chinese, English, French, Spanish and

- a) Hindi
- b) Urdu
- c) Arabic
- d) Japanese

88. Which Article of the Constitution of India accords special status to the State of Jammu and Kashmir ?

- a) Article 360
- b) Article 370
- c) Article 371
- d) Article 372

89. Which of the following countries is the largest producer of coal in the world ?

- a) South Africa
- b) USA
- c) China
- d) India

90. Which is the currency of Philippines ?

- a) Peso
- b) Ngultrum
- c) Rufiya
- d) Franc

91. Indian Fuel Research Institute is located at

- a) Guwahati
- b) Roorkee
- c) Dhanbad
- d) Mumbai

92. Which one of the following articles provides reservation of seats for the Scheduled

Castes and Scheduled Tribes in the Panchayats?

- a) Article 243 (D)
- b) Article 243 (C)
- c) Article 243 (B)
- d) Article 243 (A)

93. Which of the following publishes the Global Competitiveness Index Report ?

- a) UNDP
- b) World Economic Forum
- c) IMF
- d) WTO

94. Which of the following is a mechanical wave?

- a) Radio waves
- b) X-Rays
- c) Light waves
- d) Sound waves

95. First national Park of India is

- a) Nanda Devi National Park
- b) Jim Corbett National Park
- c) Rajaji National Park
- d) Kanha National Park

96. 'Red Data Book' is published by

- a) USEPA
- b) IUCN
- c) WWF
- d) IG-BP

97. Which of the following is an operating system ?

- a) UNIX
- b) JAVA
- c) ORACLE
- d) MS-Office

98. What is the required quorum of the Rajya Sabha ?

- a) 1/3rd of all members
- b) 1/4th of all members
- c) 1/5th of all members
- d) 1/10th of all members

99. Which one of the following days is not observed in the month of October ?

- a) International Day of Non-violence
- b) Indian Air-force Day
- c) World Environment Day
- d) U N Day

100. The 84th Amendment Act has frozen the total number of existing seats in the Lok Sabha

on the basis of 1971 census. They shall remain unaltered till the first census to be taken after the year

- a) 2010 b) 2017
c) 2021 d) 2026

Each question carries 2 marks :

101. 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 ?

- a) Sister b) Mother
c) Grandmother d) Aunt

102. If DISC is coded as 8749 and ACHE is coded as 3950, then HEAD is coded as

- a) 5308 b) 3508
c) 3805 d) 5038

103. If the alphabets are numbered from 1 to 26 relatively, then which of the following denotes a-p-p-l-e ?

- a) 1-15-15-12-5 b) 1-15-15-11-5
c) 1-16-16-12-5 d) 1-16-16-11-5

104. If the 1st of January is a Friday, what is the first day of the month of March, in a leap year ?

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

105. 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 ?

- a) Bipul b) Krishna
c) Sanjay d) Barun

106. Sunita is the 11th from either end of a row of girls. How many girls are there in that row ?

- a) 20 b) 21
c) 22 d) 19

Directions : (Q.No. 107-109) Choose the option that expresses the same relationship as the following :

107. Tobacco : Cancer

- a) Milk : Food
b) Bud : Flower
c) Mosquito : Malaria
d) Soil : Erosion

108. 'Cyclone' is related to 'Anti-cyclone', in the same way as 'Food' is related to

- a) Devastation b) Havoc
c) River d) Drought

109. 'Konkani' is related 'Goa', in the same way as 'Dogri' is related to

- a) Bihar b) Gujarat
c) Jammu and Kashmir d) Odisha

Directions : (Q.No. 110-113) A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

110. If $2 = 0, 3 = 3, 4 = 6, 5 = 9$, then $7 = ?$

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

111. 0.15, 0.3, ?, 1.2, 2.4

- a) 0.4 b) 0.6
c) 0.9 d) 1.0

112. 7, 8, 11, 16, 23, ?

- a) 31 b) 32
c) 37 d) 40

113. 3, 9, 6, 36, 30, ?

- a) 800 b) 900
c) 950 d) 400

114. If $A = 1, ACE = 9$, then $ART = ?$

- a) 10 b) 39
c) 29 d) 38

115. 60 men consume 280 kg of rice in 14 days. In how many days will 30 men consume 120 kg of rice ?

- a) 8 days b) 12 days
c) 7 days d) 9 days

116. Find the odd combination -

- a) JG b) RN
c) NJ d) UQ

Directions : (Q.No. 117-123) Select the related word / letter / number from the given alternatives.

117. DIMO : DMIO, JUVR : ?

- a) JUVR b) JVUR
c) JVRU d) JRVU

118. FRENCH : FRANCE, DUTCH : ?

- a) FIGI b) SWEDEN
c) DENMARK d) HOLLAND

119. If STOVE is coded as EVOTS, then REPORT is coded as :

- a) PORTRE b) TROPER
c) QDONQS d) SFQPSU

120. 85 : 40, 77 : ?

- a) 48 b) 49
c) 50 d) 14

121. KNQT : LORU, ADGJ : ?

- a) FHLO b) BEHK
c) DGEF d) MPVW

122. Smell : Flower, Taste : ?

- a) Salty b) Food
c) Sweet d) Wind

123. Smoke : Pollution, War : ?

- a) Victory b) Treaty
c) Destruction d) Peace

124. Five friends are sitting in a row facing South. Here Mohan is between Balu and Raju and Raju is to the immediate right of Praveen and Amit is to the right of Balu. Who is in the extreme right end ?

- a) Praveen b) Mohan
c) Balu d) Amit

125. From the given alternative words select the word which cannot be formed using the letters of the word INDEPENDENT.

- a) DEEPEN b) DEPEND
c) RETREAT d) YEND

PART - C - ARITHMETIC

Marks :100

Each question carries 2 marks :

126. A chemical solution contains 30% water and 70% alkali. What quantity of water should be added to 6 litres of solution so that water content become 40% ?

- a) 600 ml b) 1.2 litres
c) 800 ml d) 1 litre

127. The average of all prime numbers between 50 and 75 is

- a) 64 b) 53
c) 63 d) 54

128. What will be the remainder when 17^{200} is divided by 18 ?

- a) 17 b) 1
c) 16 d) 3

129. When simplified, the product

$$\left(2 - \frac{1}{3}\right) \left(2 - \frac{3}{5}\right) \left(2 - \frac{5}{7}\right) \dots \dots \dots \left(2 - \frac{997}{999}\right)$$

is equal to

- a) $\frac{1001}{999}$ b) $\frac{1001}{3}$
c) $\frac{1}{999}$ d) none of the above

130. Three bells chime at intervals of 18, 24 and 32 minutes respectively. At a certain time they chime together. What length of time will elapse before they chime together again ?

- a) 2 hours 24 minutes
b) 4 hours 48 minutes
c) 1 hour 36 minutes
d) 3 hours

131. If $\frac{a}{a+b} = \frac{17}{27}$, what is $\frac{a+b}{a-b}$ equal to ?

a) $\frac{27}{7}$ b) $\frac{10}{17}$

c) $\frac{27}{10}$ d) $\frac{7}{27}$

132. A person invested in all Rs. 2600 at 4%, 6% and 8% per annum simple interest. At the end of the year, he got the same interest in all the three cases. The money invested at 4% is

- a) Rs. 900 b) Rs. 1000
c) Rs. 1100 d) Rs. 1200

133. A sum of money placed at compound interest doubles in 5 years. It will amount to 8 times at the same rate of interest in

- a) 10 years b) 15 years
c) 20 years d) 16 years

134. The age of father 10 years ago was thrice the age of his son. Ten years hence father's age will be twice that of his son. The ratio of their present age is

- a) 5 : 2 b) 7 : 3
c) 9 : 2 d) 13 : 4

135. 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work ?

- a) 20 b) 18
c) 22 d) 24

136. A thief steals a car at 2.30 P.M. and drives it at 60 kmph. The theft is discovered at 3 P.M. and the owner sets off another car at 75 kmph. When will he overtake the thief ?

- a) 4 P.M. b) 4.30 P.M.
c) 5 P.M. d) 5.30 P.M.

137. The price of an article is cut by 20%. To restore it to the former value, the new price must be increased by

- a) 20% b) 24%
c) 25% d) None of the above

138. In a school the ratio of boys to girls is 4 : 5. When 100 girls leave the school, the ratio becomes 6 : 7. How many boys are there in the school ?

- a) 1300 b) 1500
c) 1600 d) None of the above

139. A person incurs 5% loss by selling a watch for Rs. 1140. At what price should the watch be sold to earn 5% profit ?

- a) Rs. 1224 b) Rs. 1250
c) Rs. 1260 d) Rs. 1300

140. A goods train runs at a speed of 72 kmph and crosses a 250m long platform in 26 seconds. What is the length of the goods train ?

- a) 230 m b) 240 m
c) 260 m d) 270 m

141. Find out the wrong number in the following sequence :

2, 5, 10, 18, 26, 37, 50.

- a) 50 b) 5
c) 37 d) 18

142. The sides of a triangle are 5, 12 and 13 units respectively. A rectangle is constructed which is equal in area to the triangle has a width of 10 units. Then the perimeter of the rectangle is

- a) 30 b) 26
c) 13 d) 10

143. A man can row at 5 km/h in still water. If the velocity of the current is 1 km/h and it takes 1 hour to row to a place and come back, how far is the place ?

- a) 2.3 km b) 2.4 km
c) 2.5 km d) 2.8 km

144. A solid piece of iron of dimensions 49 x 33 x 24 cm is moulded into a sphere. The

radius of the sphere is (Given $\pi = \frac{22}{7}$)

- a) 21 cm b) 28 cm
c) 35 cm d) None of the above

145. Two unbiased coins are tossed. What is the probability of getting at most one head ?

- a) $\frac{1}{2}$ b) $\frac{3}{4}$
c) $\frac{1}{4}$ d) None of the above

146. When the recurring decimal $0.\overline{36}$ is

written in simplest fractional form, the sum of the numerator and the denominator is

- a) 136 b) 15
c) 135 d) 14

147. If the radius of a circle is doubled , its area is increased by

- a) 100 % b) 200 %
c) 300 % d) None of the above

148. A, B, C hired a car for Rs. 520 and used it for 7, 8 and 11 hours respectively. Then hire charge paid by B were

- a) Rs. 140 b) Rs. 160
c) Rs. 180 d) Rs. 200

149. $\frac{1}{4}$ of a tank holds 135 litres of water.

What part of the tank is full if it contains 180 litres of water ?

- a) $\frac{1}{6}$ b) $\frac{2}{5}$
c) $\frac{2}{3}$ d) $\frac{1}{3}$

150. If the selling price of 50 articles is equal to the cost price of 40 articles, then the loss or gain percent is

- a) 20 % loss b) 20 % gain
c) 25 % loss d) 25 % gain

151. The sum of how many terms of the series 6 + 11 + 16 + 21 + 26 + is 1070 ?

- a) 10 b) 16

c) 20

d) 25

152. Which of the following cannot be the square of a natural number ?

a) 30976

b) 14368

c) 75625

d) 28561

153. In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts in all 60 questions and secures 130 marks, the number of questions he attempts correctly, is

a) 35

b) 42

c) 40

d) 38

154. $x^n + a^n$ is completely divisible by $(x + a)$ when

a) n is any natural number

b) n is an even natural number

c) n is an odd natural number

d) None of the above

155. The greatest number which can divide 1356, 1868 and 2764 leaving the same remainder 12 in each case is

a) 64

b) 76

c) 84

d) 124

156. When 52416 is divided by 312, the quotient is 168. What will be the quotient when 52.426 is divided by 0.0168 ?

a) 3.12

b) 312

c) 3120

d) None of the above

157. If $\frac{52}{x} = \sqrt{\frac{169}{144}}$, then the value of x is

a) 52

b) 48

c) 38

d) 64

158. The number of distinct prime factors of 101 is

a) 1

b) 2

c) 3

d) 4

159. The average age of the boys in a class is 16 years and that of the girls is 15 years. The average age for the whole class is

a) 15.5 years

b) 16 years

c) 15 years

d) cannot be computed with given information

160. In 10 years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B, the present age of B is

a) 49 years

b) 39 years

c) 29 years

d) 19 years

161. If $\left(\frac{1}{5}\right)^{2x} = 0.04$, then the value of

$(0.25)^x$ is

a) 0.25

b) 0.625

c) 0.025

d) 0.225

162. If x is 75% of y, what percent of x is y ?

a) $\frac{4x}{3}$ %

b) $\frac{133x}{3}$ %

c) $133\frac{1}{3}$ x %

d) $\frac{100}{3}$ x %

163. The ratio of the cost price and selling price is 4 : 5. The profit percent is

a) 30 %

b) 25 %

c) 20 %

d) Data inadequate

164. The sides of a triangle are in the ratio

$\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ and its perimeter is 104 cm. The

length of the longest side is

a) 52 cm

b) 48 cm

c) 32 cm

d) 26 cm

165. A can do a piece of work in 40 days. He works for 8 days and then B finished it in 16 days. How long will they together take to complete the work ?

a) $13\frac{1}{3}$ days

b) $10\frac{1}{3}$ days

c) $12\frac{1}{3}$ days

d) 15 days

166. Two pipes A and B can separately fill a cistern in 60 minutes and 75 minutes respectively. There is a third pipe at the bottom of the cistern to empty it. If all the three pipes are simultaneously opened, then the cistern is filled in 50 minutes. In how much time the third pipe alone can empty the cistern ?

- a) 120 min. b) 110 min.
c) 100 min. d) 90 min.

167. The distance between two cities A and B is 330 km. A train starts from A at 8 a.m. and travels towards B at 60 km/h. Another train starts from B at 9 a.m. and travels towards A at 75 km/h. At what time do they meet ?

- a) 10 a.m. b) 10:30 a.m.
c) 11 a.m. d) 11:30 a.m.

168. A sum invested at 5% simple interest per annum grows to Rs.504 in 4 years. The same amount at 10% simple interest per annum in

$2\frac{1}{2}$ years will grow to

- a) Rs. 420 b) Rs. 450
c) Rs. 525 d) Rs.550

169. A rectangular carpet has an area of 120 sq.metres and a perimeter of 46 metres. The length of its diagonal is

- a) 17 m b) 15 m
c) 16 m d) 20 m

170. If the areas of three adjacent faces of a rectangular block are in the ratio of 2 : 3 : 4 and its volume is 9000 cu.cm ; then the length of the shortest edge is

- a) 10 cm b) 15 cm
c) 20 cm d) 30 cm

171. If $\sqrt{a} + \frac{1}{\sqrt{a}} = 2$, then the value of $a + \frac{1}{a}$ is

- a) 2 b) 4
c) $\sqrt{2}$ d) 1

172. How many words with or without meaning, can be formed by using all the letters of the word, 'DELHI' using each letter exactly once?

- a) 60 b) 80
c) 100 d) 120

173. From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the card being kings ?

- a) $\frac{1}{221}$ b) $\frac{35}{256}$
c) $\frac{25}{57}$ d) $\frac{1}{13}$

174. If the price of petrol is increased by 30%, by how much percent a car owner must reduce his consumption in order to maintain the same budget ?

- a) $21\frac{1}{2}\%$ b) $21\frac{1}{3}\%$
c) $23\frac{1}{13}\%$ d) 33 %

175. The sum and the difference of two numbers are 25 and 13 respectively. The product of the numbers is

- a) 104 b) 140
c) 132 d) 114