

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.****280016**

Marks : 300

Time : 3 (three) hours

Read the following instructions carefully before you
begin to answer the questions.**INSTRUCTIONS TO CANDIDATES**

1. This booklet contains **200 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen in following two parts.

Part-A : General English : 50 questions, Part-B : General Knowledge & Aptitude : 100 questions, 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 :-



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.

PART-A: GENERAL ENGLISH
FULL MARKS: 100

Each question carries 2 marks :

Directions : In the following, a sentence/part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is required, choose "No improvement".

1. She told the children not to stop the work.

- a) not stopping
- b) don't stop
- c) not stopping of
- d) No improvement

2. I am not telling you that you should hunt out people to pursue your policies.

- a) asking
- b) saying
- c) speaking
- d) No improvement

3. He succeeded by dint of hard work.

- a) by means of
- b) by doing
- c) by virtue of
- d) No improvement

4. You have read that book for ages.

- a) have been reading
- b) had read
- c) will be reading
- d) No improvement

5. He is resembling his father.

- a) has been resembling
- b) resembles like
- c) resembles
- d) No improvement

6. It has been two years since I have seen him last.

- a) when I have seen him
- b) since I had seen him
- c) since I saw him
- d) No improvement

7. He told to us everything he knew.

- a) us everything he knew
- b) us everything he is knowing
- c) us everything he was knowing
- d) No improvement

Directions : In the following, choose the alternative which best expresses the meaning of the given Idiom/Phrase :

8. Sit on the fence

- a) to be defeated and dejected
- b) halting between two opinions
- c) to be relaxed and comfortable
- d) to be in a tricky position

9. Under a cloud

- a) warned severely
- b) under suspicion
- c) under suspension
- d) under scrutiny

10. Shake off

- a) forget
- b) imagine
- c) remember
- d) take away

11. Pull a long face

- a) look tired
- b) look ugly
- c) look happy
- d) look dejected

12. A hornet's nest

- a) a comfortable position
- b) a dilemma
- c) among thorns
- d) an unpleasant situation

Directions : Choose the most appropriate word/phrase closest in meaning to the underlined word/phrase and select your answer from the given options :

13. He disdained to notice the insult.

- a) was very proud
- b) refused
- c) was unhappy
- d) was too reluctant

14. The poem is very evocative.

- a) thrilling
- b) enchanting
- c) emotional
- d) incantory

15. He made an impromptu speech.

- a) without preparation
- b) thoughtless
- c) improper
- d) long and boring

16. They both enjoyed the evening stroll.

- a) trat
- b) walk
- c) jog
- d) gallop

17. In his adversity he remembered his father.

- a) spirituality
- b) seniority
- c) misery
- d) familiarity

Directions : From the given options, choose the word which best expresses the meaning of the given word :

18. Brutal
a) humane b) savage
c) compassionate d) sympathetic

19. Revel
a) glory b) make merry
c) reveal d) revert

20. Eternal
a) forever b) short term
c) temporary d) time being

21. Frigid
a) cordial b) bold
c) icy d) stifling

22. Enamoured
a) authorised b) enclosed
c) qualified d) charmed

Directions : From the given options, choose the word which is opposite in meaning to the given word :

23. Abrupt
a) sudden b) spongy
c) smooth d) crisp

24. Thorough
a) detailed b) utter
c) cursory d) intensive

25. Nasty
a) unpleasant b) pleasant
c) beautiful d) ugly

26. Dexterity
a) effortlessly b) proficiency
c) clumsiness d) skilfulness

27. Assemble
a) flock b) scatter
c) group d) hoard

Directions : In each of the following questions there is a capitalized word which has been used in four different way. Select the option in which the usage of the word is not appropriate.

28. RAW
a) some tribes in Africa eat raw meat.
b) it was such a raw deal
c) his style is still raw
d) he had a raw with his friends last night

29. CLOSE

- a) if you close your eyes, you will not be able to see.
b) this road is closed.
c) Rahul and Ravi are closed friends.
d) the judge declared the case closed.

30. PACK
a) people packed into the stadium to watch the cricket match.
b) what pack do they offer in the company ?
c) a pack of dogs hounded them.
d) the aircraft's engines packed up

31. TRAVEL
a) light travels faster than sound.
b) my mind travelled over the past events
c) the railway travels hundreds of miles across the country.
d) travel helps to broaden our understanding of other people.

32. MIND
a) I have made up my mind.
b) we are all of one mind on this issue.
c) would you please mind the baby while I'm gone ?
d) I mind you to be careful when you are alone in the house.

Directions : In the following sentences, use the appropriate form of Verbs given in order to complete the sentence :

33. He _____ Indian journalism to educate the public.
a) pioneered b) was pioneering
c) has pioneered d) had pioneered

34. Increased capital inflows _____ upward pressure on the rupee.
a) create b) is created
c) have created d) will create

35. All types of vegetation _____ in this region.
a) see b) are seen
c) is seen d) saw

36. We _____ till evening came.
a) wait b) waited
c) are waiting d) will wait

37. Do you think they _____ ?
a) would come b) will come
c) are coming d) will be coming

Directions : Identify the best way of writing the sentence in the context of correct usage of standard written English.

38. a) John said that he will visit me now.
b) John said that he will visit me then.
c) John said that he would visit me now.
d) John said that he would visit me then.
39. a) Excess knowledge is a dangerous thing
b) Excessive knowledge is a dangerous thing
c) A little knowledge is a dangerous thing
d) A less knowledge is a dangerous thing
40. a) His house consists three bedrooms and a toilet
b) His house comprises of three bedrooms and a toilet
c) His house comprises three bedrooms and a toilet
d) His house consists with three bedrooms and a toilet

Directions : Fill in the blanks choosing the correct pair of words :

41. We _____ to inform you that we cannot include your thesis in our library, on the _____ of not receiving permission from your supervisor.
a) saddened, reason
b) repent, justification
c) lament, pretext
d) regret, ground
42. When her illness took a turn for the worse, the doctors took _____ to _____ the situation.
a) steps, ameliorate
b) modes, improve
c) approaches, better
d) measures, enhance
43. The public relations agency _____ out all the stops to ensure a _____ attendance at the gala.
a) gave, phenomenal
b) pulled, spectacular
c) took, marvellous
d) forked, staggering

Directions : Select whichever word you consider most appropriate for the blank space :

44. An accomplice is a partner in _____.
a) business b) crime
c) construction d) gambling

45. A person who pretends to be what he is not is called an _____

- a) imbibor b) impresario
c) imitator d) imposter

46. Allowance due to a wife from her husband on legal separation is _____

- a) debt b) alimony
c) compensation d) damages

47. Those who live in trees are called _____

- a) adhesive b) fluvial
c) arboreal d) frill

48. Spanish-speaking people living in the U.S. are called _____

- a) Hispanic b) Spaniards
c) Afro-American d) Portuguese

49. Sleep-walking is called _____

- a) hallucination b) reverie
c) somnambulism d) incantation

50. Using a milder word/phrase instead of a harsh or direct one is _____

- a) Euphemism b) metaphor
c) simile d) anecdote

PART-B: GENERAL KNOWLEDGE & APTITUDE
FULL MARKS: 100

Each question carry 1 mark :

51. Which among the following countries in the Indian sub-continent permits dual citizenship ?

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

52. Ozone layers absorb

- a) infared rays
- b) ultraviolet rays coming from the sun
- c) all radiations from the sun
- d) cosmic rays

53. Which element in chillies causes a burning sensation ?

- a) Capsaicin b) Cyanogen
- c) Ammonia d) Capsicum

54. The highest position in the country an IAS officer may aspire for is

- a) Governor, RBI b) Cabinet Secretary
- c) Home Secretary d) Foreign Secretary

55. The offending substance in the liquor tragedies leading to blindness etc. Is

- a) ethyl alcohol b) amyl alcohol
- c) benzyl alcohol d) methyl alcohol

56. Which of the following gases is not found free in air ?

- a) Nitrogen b) Hydrogen
- c) Oxygen d) Carbon dioxide

57. The Black Box is a device used in an aircraft to

- a) control the speed
- b) detect any flaw in the engines
- c) record the flight data
- d) maintain contact with the ground

58. World Literacy Day is observed on

- a) October 12 b) October 13
- c) September 8 d) November 1

59. The playing time of the full version of the Indian National Anthem is

- a) 52 seconds b) 45 seconds
- c) 48 seconds d) 1 minute

60. Acid rain occurs because of pollution of air by

- a) Carbon monoxide b) Chlorine
- c) Sulphur dioxide d) Carbon dioxide

61. Which country, among the following, has the largest electorate in the world ?

- a) Australia b) Canada

c) India

d) the U.S.A.

62. The world's largest Islamic nation is

- a) Bangladesh b) Indonesia
- c) Pakistan d) Turkey

63. The oldest product of biotechnology known to man is

- a) antibiotics b) humulin
- c) alcoholic drinks d) citric acid

64. Greenhouse effect is a case of

- a) air pollution
- b) water pollution
- c) pollution of edible greens
- d) non-degradable pollution pollutants

65. Wasteland is land which is

- a) uncultivable
- b) degraded beyond repair
- c) degraded but cultivable
- d) alkaline soil

66. Identify the non-polymer among the following

- a) Elastomer b) Waxes
- c) Fibres d) Resins

67. Programmes of afforestation are launched to

- a) improve the economic resources of the region
- b) prevent desertification
- c) stop soil erosion
- d) achieve all the above results

68. There is a Hyderabad in Pakistan. In which province?

- a) Sind b) NWFP
- c) Punjab d) Bahuchistan

69. Legumes are highly nutritious, because they are rich in

- a) starch b) oils
- c) fat d) protein

70. Acid rain occurs because of pollution of air by

- a) Carbon monoxide b) Chlorine
- c) Sulphur dioxide d) Carbon dioxide

71. Epigraphy is the study of

- a) epidemics b) temple architecture
- c) inscriptions d) rocks and mountains

72. Suez Canal was designed by

- a) Ferdinand de Lesseps b) Le Corbusier
- c) John Napier d) Verron

73. The term "Baker's dozen" denotes

- a) 11 b) 13
- c) 14 d) 10

74. 10th December, in modern international history, is known as the

- a) Workers' Day b) U.N. Day
- c) Human Rights Day d) Commonwealth Day

75. The first test tube baby was born in

- a) the USA b) France
- c) the UK d) India

76. The first space rocket to hit the moon was

- a) Apollo II b) Luna 9
- c) Lunik 2 d) Zond 5

77. Palm oil is extracted from

- a) Coconut palm b) Palmyra palm
- c) Oil palm d) Joddy palm

78. Who among the following, first propounded the theory of natural rights ?

- a) Aristotle b) Hobbes
- c) Locke d) Socrates

79. "Love Story" was written by

- a) Khushwant Singh b) William Golding
- c) Dom Moraes d) Erich Segal

80. "In the footsteps of the Mahatma Gandhi and sanitation"- is the work of

- a) Sudarshan Iyengar b) J.R.D. Tata
- c) R.N. Tagore d) P.V. Narasimha Rao

81. Which, among the following states, is often described as 'God's own country' ?

- a) Jammu and Kashmir b) Sikkim
- c) Goa d) Kerala

82. The holy shrine of Badrinath lies in

- a) Leh b) Ladakh
- c) Uttaranchal d) Jammu and Kashmir

83. Which among the following, is not a cereal ?

- a) Oilseeds b) Wheat
- c) Rice d) Barley

84. Silkworm consumes

- a) mulberry leaves b) flowers
- c) barks d) roots

85. Which of the following has the highest protein per gram ?

- a) Groundnut b) Soyabean
- c) Apple d) Wheat

86. Which, among the following, is a fast growing tree ?

- a) Teak b) Encalyptus
- c) Banyan d) Coconut

87. Mouth and foot diseases in cattle are caused by

- a) Bacteria b) Virus
- c) Fungi d) Penicillium

88. The age of a tree can be determined by

- a) counting the number of annual rings
- b) thickness of the bark
- c) the bulk of the tree
- d) the number of branches

89. Guwahati was known as _____ in ancient times

- a) Hampinagara b) Pollomaruva
- c) Jagadrakshakpur d) Pragjyotishpur

90. 'Toda' tribals are to be found in large numbers in the state of

- a) Andhra Pradesh b) Tamil Nadu
- c) Orissa d) Madhya Pradesh

91. 'Acoustics' is a branch of study dealing with

- a) historical sites b) architecture
- c) sound d) trigonometry

92. The first country to launch a space shuttle was

- a) the U.S.A. b) China
- c) Japan d) the U.K.

93. Who among the following, was known as 'Gadadhar', in his younger days ?

- a) Swami Vivekananda
- b) Sri Ramakrishna Paramahansa
- c) Shri Ramana Maharishi
- d) Swami Sivananda

94. Which of the following ideologies is associated with the state of Israel ?

- a) Existentialism b) Zionism
- c) Pan-Arabism d) Neo-terrorism

95. The Supreme Court has held in a landmark ruling, that "horse racing is not gambling, but _____

- a) a game of skill
- b) an outdoor game like golf
- c) a consummate art
- d) an intelligent sport

96. Thomas Alva Edison is associated with a number of inventions. Which one of the following is not associated with him ?

- a) Cinematography b) Electric lamp
- c) Gramophone d) Transistor

97. Jerusalem is the Holy city of the

- a) Jews b) Christians
- c) Muslims d) All the three

98. Singapore is a

- a) Dominion b) Republic
- c) Hindu Kingdom d) Chinese Colony

99. What did Marie Antoinette ask the hungry mobs to eat ?

- a) Dates b) Oats
- c) Cakes d) Hamburgers

100. Which of the following is a rift valley ?

- a) Kashmir Valley b) Damodar Valley
- c) Narmada Valley d) Chambal Valley

101. The city of Chandigarh was designed by

- a) Jacob Epstein b) Le Corbusier
- c) Ferdinand de Lesseps d) Rodin Aug te

102. The first to reach the North Pole by overland journey was

- a) Robert Peary b) Edward White
- c) Magellan d) Amundsen

103. The first metal used by man was

- a) copper b) iron
- c) aluminium d) gold

104. 'Savannah' is a

- a) desert b) forest
- c) grassland d) snow-clad mountain

105. Bats can fly in the dark because

- a) they have a better vision in the dark
- b) the light startles them
- c) they produce high pitch sounds called ultrasonics
- d) none of the above

106. Who among the following, is the first Indian to win an Oscar Award ?

- a) Dilip Kumar b) Bhanu Athaiya
- c) Shabana Ajmi d) Naseeruddin Shah

107. Cambria is an old name for

- a) France b) Ireland
- c) New Zealand d) Wales

108. The Central American Republic of British Honduras is now known as

- a) Anatolia b) Belize
- c) Benin d) Cape Verde

109. 'ISBN' printed on books stands for

- a) International Standard Book Number
- b) Indian Standard Book Number
- c) Indian Standards Bureau Norms
- d) International Society of Booksellers, New York.

110. Indus Valley Civilization is called the Proto-historic civilization because its people had known about

- a) art b) writing
- c) copper d) pottery

111. The two minerals required to keep teeth and bones intact and in good condition are

- a) Lead and Zinc
- b) Calcium and Phosphorus
- c) Copper and Sulphur
- d) Iron and Iodine

112. The Headquarters of UNESCO is

- a) New York b) Washington
- c) Paris d) Amsterdam

113. International Date line is an imaginary

- a) straight line b) zigzag line
- c) elliptical line d) curved line

114. Which among the following places, is reckoned as the birthplace of Asian Art ?

- a) Ajanta b) Gandhara
- c) Mathura d) Vijayanagar

115. Which among the following, is not an essential macronutrient ?

- a) Carbohydrate b) Protein
- c) Fats d) Vitamin

116. Aspirin is an

- a) anti-inflammatory agent
- b) Analgesic
- c) antibiotic
- d) Antihistamine

117. The Nokrek National Park and the Balpakram National Park are located in

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

118. Which, among the following cities, has been branded the "School Capital of India" ?

- a) Bangalore b) Chennai

- c) Gandhinagar d) Dehra Dun

119. The founder of the YMCA was

- a) Gregory Peck
b) Lord Mountbatten
c) Sir George Williams
d) James Ramsay Macdonald

120. Which among the following, is known as 'fight or flight' hormone ?

- a) Adrenaline b) Estrogen
c) Insulin d) Oxytocin

121. In India, the population census is carried out once in every

- a) 5 years b) 10 years
c) 6 years d) 15 years

122. According to the World Health Organisation, the disease which causes the death of the largest number of people is

- a) AIDS b) tuberculosis
c) malaria d) ebola

123. Which one of the following is used in dry cleaning of garments ?

- a) Asphalt b) Naphtha
c) Diesel oil d) Lubricating oil

124. Cooking gas is a mixture of

- a) Carbon dioxide and Oxygen
b) methane and ethylene
c) butane and propane
d) Carbon dioxide and Carbon monoxide

125. Life expectancy is highest in the world in

- a) Canada b) Germany
c) Japan d) Norway

Each question carry 1 mark :

126. In the given series, one number does not fit in. Find that out.

3, 5, 11, 14, 17, 21

- a) 14 b) 11
c) 17 d) 21

127. The average of three numbers x, y and z is 15. Thrice the sum of y and z is 81. What is the value of x ?

- a) 12 b) 15
c) 18 d) 27

128. The series of letters given here follow a definite order. Study the series and select the letter that will continue the given series.

P Q U R O Q U R N Q U R

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

129. Pointing to a photograph, Sunil said, "His daughter Meera is a grand daughter of my mother". Whose photograph was it ?

- a) Sunil's
b) Sunil's son
c) Sunil's uncle
d) cannot be said definitely

130. A is B's sister. C is B's mother. D is C's father. E is D's mother. How is A related to D?

- a) Grand father b) Grand mother
c) Daughter d) Grand daughter

131. What will be the next term in the following series ?

BKS, DJT, FIU, HHV,

- a) JGV b) IJX
c) GJW d) JGW

132. B is twice as old as A but younger than F. C is half the age of A but twice the age of D. Which of the following persons form the pair of oldest and youngest ?

- a) F and A b) B and F
c) F and D d) C and F

133. In a family, there are six members A, B, C, D, E and F. A and B are a married couple, A being the female member. D is the only daughter of C who is the sister of A. E is the brother of D. B is the son-in-law of F whose wife has already expired. How is C related to B ?

- a) Sister b) Sister-in-law
c) Neice d) Daughter-in-law

134. "Chi kai Shi" means "Earth is round", "Chu Chin Chi" means "Banana is sweet". "Kul Shak Kai" means "Balls are round". Then which letter code stands for Earth ?

- a) Chi b) Shi
c) Kai d) Chu

135. Susheela is richer than Ramya whereas Akila is richer than Priya. Chandra is as rich as Ramya. Shoba is richer than Susheela. According to the above propositions, which of the following statements is definitely true ?

- a) Chandra is poorer than Akila
b) Susheela is richer than Priya
c) Shoba is richer than Ramya
d) Priya is the poorest of all

136. In a certain code, 'juice me choice' is coded as 'set let ket', 'green rose flower' is coded as 'me ret jet' and 'rose favourite choice' is coded as 'let ret bet'. Which of the following is coded as 'bet' as per the above code ?

- a) juice b) favourite
c) green d) flower

137. A boy has as many sisters as brothers, but each girl has only half as many sisters as brothers. How many boys and girls are there in the family ?

- a) 4 boys and 6 girls
b) 6 boys and 4 girls
c) 3 boys and 4 girls
d) 4 boys and 3 girls

138. The average age of five children is 6 years which get doubled, when their mother's age is included. What is the mother's age ?

- a) 30 years b) 42 years
c) 48 years d) 40 years

139. Five years ago Prakash's mother was three times as old as Prakash. After seven years she will be twice as old as Prakash. How old is Prakash's mother now ?

- a) 17 years b) 36 years
c) 41 years d) 48 years

140. In an election, a certain candidate was elected with a majority equal to one third of the number of votes polled by the defeated candidate. If the defeated candidate has got 20 more votes, even then the other candidate would have been elected by a margin of 2 votes. Find the number of voters who exercised their franchise

- a) 276 b) 268
c) 288 d) 294

141. Out of 80 employees of a company one-fourth have cars, one half have scooters and one-tenth have both cars and scooters. How many have neither a car nor a scooter?

- a) 32 b) 12
c) 30 d) 28

142. On a New Year Day, each one of the ten friends presented a sum of Rs.10 to all the others. The total amount of money presented was

- a) Rs.1000 b) Rs.900
c) Rs.810 d) Rs.90

143. When a dice is thrown, what is the probability that the number shown on the dice is not divisible by 3 ?

- a) $\frac{2}{3}$ b) $\frac{4}{7}$
c) $\frac{5}{6}$ d) $\frac{1}{6}$

144. Prakash, Deepak, Ajit, Suresh and Neela work in the same factory. Neela joined the factory before Ajit, but after Deepak. Prakash started working in the factory before Deepak but after Suresh. Who is the senior most among these ?

- a) Prakash b) Deepak
c) Ajit d) Suresh

145. A man had returned after a day's bird shooting. He was asked how many birds he had in his bag. He said, they are all sparrows but six, all pigeons but six and all doves but six. How many birds had he in all ?

- a) 18 b) 15
c) 9 d) 12

146. Which number will come in the place of question mark ?

528, 496, 466, ?, 412, 388

- a) 454 b) 444
c) 438 d) 439

147. Numbers in the following series follow a certain arrangement. Find out the right number that will come in the place of the question mark.

97, 98, 100, 103, ?, 112, 118

- a) 108 b) 105
c) 104 d) 107

148. A bus starts from city A. The number of women in the bus is half the number of men. In city B, 10 men leave the bus and 5 women enter. Now number of men and women are equal. How many passengers were in the bus when it started ?

- a) 15 b) 30
c) 36 d) 45

149. Complete the following series by providing the missing numbers from the choices given below :

$\frac{2}{5}$, $\frac{7}{10}$, $\frac{17}{20}$, $\frac{37}{40}$, $\frac{77}{80}$, ?

a) $\frac{4}{9}$

b) $\frac{102}{92}$

c) $\frac{97}{100}$

d) $\frac{157}{160}$

150. Three women are going together. Two of them are mothers, while two of them are daughters. How is the youngest related to the oldest of the three ?

a) mother

b) daughter

c) grand daughter

d) cannot be concluded

PART-C: ARITHMETIC
FULL MARKS: 100

Each question carries 2 marks :

151. A sum of Rs.1360 has been divided among A, B and C such that A gets $\frac{2}{3}$ of what B gets

and B gets $\frac{1}{4}$ of what C gets. B's share is :

- a) Rs. 120 b) Rs. 160
c) Rs. 240 d) Rs. 300

152. If $\sqrt{24}=4.899$, the value of $\sqrt{\frac{8}{3}}$ is

- a) 1.634 b) 2.633
c) 0.634 d) 1.633

153. A cricketer has a certain average for 10 innings. In the eleventh inning, he scored 108 runs, thereby increasing his average by 6 runs. His new average is

- a) 48 runs b) 52 runs
c) 55 runs d) 60 runs

154. The unit digit in 3^{40} is

- a) 1 b) 3
c) 7 d) 9

155. The number which exceeds 16% of it by 42 is

- a) 52 b) 50
c) 48 d) 40

156. When a commodity is sold for Rs.34.80, there is a loss of 2%. What is the cost price of the commodity ?

- a) Rs.26.10 b) Rs.40.25
c) Rs.46.40 d) None of the above

157. If $2A=3B$ and $4B=5C$, then $A : B : C$ is

- a) 15 : 10 : 8 b) 4 : 3 : 2
c) 8 : 10 : 15 d) 2 : 3 : 4

158. A person travels equal distances with speeds of 3 km/hr, 4 km/hr and 5 km/hr and takes a total time of 47 minutes. The total distance (in km) is

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

159. The length of a rectangular hall is 5 m more than its breadth. The area of the hall is 750 m^2 . The length of the hall is

- a) 15 m b) 25.5 m
c) 27 m d) 30 m

160. How many cubes of 3 cm edge can be cut out of 18 cm edge ?

- a) 36 b) 216

c) 218

d) 432

161. A man has 20 bicycles and tricycles. If the total number of wheels of these vehicles is 50, how many tricycles does he have ?

- a) 10 b) 15
c) 6 d) 5

162. Two numbers are in the ratio 3 : 7 and their L.C.M. is 84, then the greater number is

- a) 21 b) 28
c) 36 d) 12

163. If $\frac{4}{5}$ of an estate be worth Rs. 16,800,

then the value of $\frac{3}{7}$ of the estate is

- a) Rs. 9,000 b) Rs. 21,000
c) Rs. 72,000 d) Rs. 90,000

164. No perfect square can end in the digit

- a) 0 b) 1
c) 8 d) 9

165. Which of the following is not a leap year ?

- a) 2020 b) 2000
c) 1996 d) 1900

166. If $x^2 + 4y^2 = 4xy$, then $x : y$ is

- a) 1 : 2 b) 2 : 1
c) 1 : 1 d) 1 : 4

167. If gain is $\frac{1}{4}$ of cost price, the gain percent is

- a) 50% b) 40%
c) 25% d) 20%

168. At what rate percent per annum will the

simple interest on a sum of money be $\frac{2}{5}$ of the amount in 10 years ?

- a) 4% b) $4\frac{1}{2}\%$

- c) 6% d) $5\frac{2}{3}\%$

169. The principal that amounts to Rs.4913 in 3

years at $6\frac{1}{4}\%$ per annum compound interest compounded annually is

- a) Rs. 3096 b) Rs. 4076
c) Rs. 4085 d) Rs. 4096

170. A train of length 200m takes 10 seconds to cross a bridge of length 50m. How much time will it take to cross a pole ?

- a) 4 seconds b) 5 seconds
c) 6 seconds d) 8 seconds

171. Present ages of Rahul and Mukul are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Mukul's present age in years ?

- a) 24 b) 28
c) 32 d) None of the above

172. The side of a square X is 110% of the side

of another square Y, then $\frac{\text{area of } X}{\text{area of } Y}$ is equal to

- a) 121 b) 1.21
c) 1.1 d) 12.1

173. The number of distinct prime factors of $6^{10} \times 7^{17} \times 33^{25}$ is

- a) 3 b) 4
c) 5 d) None of the above

174. If $0 < a < 1$, then the value of $a + \frac{1}{a}$

- a) less than 4 b) greater than 4
c) less than 2 d) greater than 2

175. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank ?

- a) 20 hrs b) 25 hrs
c) 30 hrs d) None of the above

176. How long will it take a sum of money invested at 5% p.a. simple interest to increase its value by 40% ?

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

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

- a) 10 years b) 12 years
c) 16 years d) 20 years

178. The percentage increase in the area of a rectangle, if each of its sides is increased by 20%, is

- a) 46% b) 44%
c) 42% d) 40%

179. Three years ago, the average age of A and B was 18 years. With C joining them, the average age becomes 22 years. How old is C now ?

- a) 24 years b) 27 years
c) 28 years d) 30 years

180. If x is positive, which of the following signs should replace the asterisk (*) in

$$\frac{1}{2} * \frac{1+x}{2+x} ?$$

- a) > b) <
c) ≤ d) ≥

181. The value of $1 \div [1 + 1 \div \{1 + 1 \div (1 + 1 \div 2)\}]$ is

- a) $\frac{5}{8}$ b) $\frac{3}{5}$

- c) 1 d) 2

182. The cost price of an article is 64% of the marked price. The gain percent after allowing a discount of 12% is

- a) 50% b) 48.5%
c) 37.5% d) 25%

183. If three numbers are in the ratio 3 : 4 : 5 and the sum of their squares is 1250, then the smallest number is

- a) 12 b) 15
c) 20 d) 24

184. A man completes $\frac{5}{8}$ of a job in 10 days.

At this rate, how many more days will it take him to finish the job ?

- a) 6 b) 7

- c) $7\frac{1}{2}$ d) None of the above

185. Three cubes of iron whose edges are 6 cm, 8 cm and 10 cm respectively, are melted and formed into a single cube. The edge of the new cube formed is

- a) 12 cm b) 14 cm
c) 16 cm d) 18 cm

186. The calendar for the year 2018 will be the same for the year :

- a) 2020 b) 2022
c) 2023 d) none of the above

187. One card is drawn at random from a pack of 52 cards. What is the probability that the card is a face card ?

- a) $\frac{3}{13}$ b) $\frac{4}{13}$
c) $\frac{1}{4}$ d) $\frac{1}{52}$

188. The polygon which has equal number of diagonals and sides, is a

- a) heptagon b) hexagon
c) pentagon d) quadrilateral

189. The least number by which 294 must be multiplied to make it a perfect square, is

- a) 2 b) 3
c) 5 d) 6

190. What should come in place of the question mark in the equation?

$$\sqrt{\frac{?}{169}} = \frac{54}{39}$$

- a) 108 b) 324
c) 2916 d) 4800

191. In a group of 30 people, 21 like tea and 16 like coffee. How many people like both tea and coffee ?

- a) 7 b) 5
c) 9 d) 10

192. The sum of two numbers is 40 and their difference is 4. The ratio of the two numbers is

- a) 21 : 19 b) 11 : 18
c) 11 : 9 d) None of the above

193. Rohit is facing North-East. He turns 90° in the anti-clockwise direction & then 135° in the clockwise direction. Which direction is he facing now ?

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

194. If it is Saturday today, what day will be there on the 110th day from today ?

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

195. What is the area of the largest circle that can be drawn inside a rectangle with sides 42

cm x 56 cm ? [Take $\pi = \frac{22}{7}$]

- a) 616 cm² b) 1386 cm²
c) 2464 cm² d) 784 cm²

196. A train is running at 80 km/hr and a car is running at 120 metre per 5 seconds. Which of the following is correct ?

- a) Train is faster b) Both at same rate
c) Car is faster d) Not possible to say

197. If $1+3=127$, $2+4=864$, then $5+1=?$

- a) 251 b) 1251
c) 6251 d) None of the above

198. The average of first 10 odd natural numbers is

- a) 9 b) 11
c) 13 d) None of the above

199. Complete the following sequence with the appropriate number from options below.

4, 7, 12, 19, 28,, 52

- a) 39 b) 41
c) 43 d) 47

200. If S = sum of the first five odd natural numbers, and P = sum of the first five prime numbers then

- a) $P - S = 0$ b) $P - S = 2$
c) $S - P = 2$ d) $S + P = 50$
