

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

QUESTION BOOKLET

SERIES I

Subjects : General English, General Knowledge & Aptitude, Mathematics

BOOKLET SERIAL NO.

207953

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.

22. a) Beificial b) Beneficial
 c) Beneficial d) Benifical
23. a) Adultarate b) Adulterate
 c) Adultrate d) Adulltrate

Directions : Select the correct sentence :

24. a) After the picnic, we had lots of bread left.
 b) After the picnic we had lot of breads left.
 c) After the picnic we had lot of bread left.
 d) After the picnic, we had lots of breads left.

25. a) I did my work quick.
 b) I did my work very quick.
 c) I did my work quickly.
 d) None of the above

26. a) I am ready to say this at her face.
 b) I am ready to say this on her face.
 c) I am ready to say this in her face.
 d) I am ready to say this to her face.

27. a) The villagers were enjoying winter evening around the fire.
 b) The villagers were enjoying winter evening around fire.
 c) The villagers were enjoying winter evening round fire.
 d) The villagers were enjoying winter evening all round fire.

28. a) The team is confident to win the match.
 b) The team is confident of winning the match.
 c) The team is confident to win match.
 d) The team is confident for winning the match.

Directions : Which option best expresses the given sentence in Indirect Speech :

29. "Are you alone my son ?" asked a soft voice close behind me.
 a) A soft voice asked that what I was doing there alone.
 b) A soft voice said to me are you alone son.
 c) A soft voice from my back asked if I was alone.
 d) A soft voice behind me asked If I was alone.

30. He said to his father, "Please increase my pocket money."

- a) He told his father, "Please increase my pocket money."
 b) He pleaded his father to please increase my pocket money.
 c) He requested his father to increase his pocket money.
 d) He asked him to increase his pocket money.

Directions : Select the word closest in meaning (synonym) to the word given :

31. Impetuous
 a) Impious b) Impressive
 c) Hasty d) Disturbing

32. Deliberately
 a) Spontaneously b) Inadvertently
 c) Intentionally d) Naturally

Directions : Select the word opposite in meaning (antonym) to the word given :

33. Invalid
 a) Healthy b) Recovering
 c) Sound d) Deteriorating

34. Considerate
 a) Ignorant b) Lazy
 c) Angry d) Insensitive

Directions : Select the word that can be substituted for the given words/sentence :

35. Action that is likely to make people very angry
 a) Inflationary b) Inflammable
 c) Commensurable d) Inflammatory

36. A person who looks at the bright side of things
 a) Cynic b) Pessimist
 c) Optimist d) Sycophant

37. Not suitable for eating
 a) Tasteless b) Uneatable
 c) Inedible d) Spicy

38. The plants and vegetation of a region
 a) Landscape b) Environment
 c) Flora d) Fauna

39. Occurring at night
 a) Neurotic b) Nocturnal
 c) Dark d) Nightly

40. Study of the relation between an organism and environment

- a) Ecology
- b) Geology
- c) Botany
- d) Entomology

Directions : Select the option closest in meaning to the idiom/phrase given :

41. Right hand man

- a) An honest person
- b) Most efficient assistant
- c) One who cannot use his left hand
- d) A foolish person

42. To smell a rat

- a) Signs of plague epidemic
- b) Bad smell
- c) Suspect foul dealing
- d) To be in a bad mood

43. To be hard up

- a) To look depressed
- b) To keep starvation away
- c) To act excitedly
- d) To be short of money

44. At the eleventh hour

- a) Too late
- b) Too early
- c) Immediately
- d) At the last moment

Directions : Fill in the blanks with the correct idiom/phrase :

45. I know everything seems very bad at the moment but _____. I'm sure something good will come out of it.

- a) Ignorance is bliss
- b) Throw caution to the wind
- c) Every cloud has a silver lining
- d) Eat like a horse

46. I tend to ____ over most controversial issues. I'm never sure which side of the argument to support.

- a) Call a spade a spade
- b) Sit on the fence
- c) Play by the ear
- d) Black out

47. We'll be _____ to get this finished. It's 4pm

so we only have an hour left.

- a) Working against the clock
- b) At sea
- c) Beating around the bush
- d) Call it a day

48. I thought John was an idiot when I first saw him just because of the way he dressed. But _____ - he is a really nice person.

- a) Wear your heart on your sleeve
- b) Read between the lines
- c) You don't judge a tree by its fruit
- d) You don't judge a book by its cover

49. All my brothers hold important positions in the government. I have not been as successful. In fact I am _____.

- a) As busy as a beaver
- b) The black sheep of the family
- c) In the dog house
- d) A white elephant

50. They did not want to reveal their plants but he _____.

- a) Let sleeping dogs lie
- b) Hit the bull's eye
- c) Let the cat out of the bag
- d) Kill two birds with one stone

PART - B - GENERAL KNOWLEDGE & APTITUDE

Marks : 100

Each question carries 2 marks :

51. Which of the following Organizations/Institutions launched the behaviour change campaign 'Navigating the New Normal' and its website to help people follow norms to contain the spread of Covid-19 ?
- The NITI Aayog
 - The Finance Ministry
 - The International Monetary Fund
 - World Health Organisation
52. 'BHARAT GAURAV' Scheme is related to
- Infrastructure
 - Education
 - Tourism
 - Women Safety
53. Which of the following is the objective of 'Nadu-Nedu' programme of Andhra Pradesh?
- Transform Government schools to improve learning outcomes
 - Control the infant Mortality rate
 - Increase pupil-teacher ratio in government schools
 - Empowerment of disabled person
54. 'DOSTI' trilateral coast guard exercise is organized among
- India, China and South Korea
 - Maldives, Sri Lanka and India
 - Bangladesh, India and Sri Lanka
 - India, Bangladesh and Maldives
55. Istanbul convention is related to
- Anti-human trafficking
 - Child Education
 - Violence against women and domestic violence
 - Poverty eradication
56. The term 'PASIPHAE' is related to
- Solar mission
 - Sky surveying project
 - Higher education
 - Women safety
57. Which of the following country gave assent to non-Muslim civil marriage ?
- Saudi Arabia
 - UAE
 - Pakistan
 - Oman
58. Bloemfontein is the judicial capital of
- South Africa
 - Denmark
 - South Sudan
 - The Netherlands
59. Delhi Declaration refers to
- Climate change summit
 - Regional Security Summit on Afghanistan
 - Initiative to curb pollution in Delhi
 - Global initiative to eradicate domestic violence
60. Zircon hypersonic cruise missile is launched by which of the following nation ?
- Russia
 - United States
 - Japan
 - North Korea
61. Which of the following articles of the Constitution of India deals with Financial Emergency?
- Article 352
 - Article 356
 - Article 360
 - Article 370
62. The principal reason why it is better to have two eyes than one is that
- By having two eyes we can distinguish colour easily
 - By having two eyes we can easily see in the dark as well as in dim light
 - It gives a man a type of vision known as mosaic vision
 - It enhances distance and depth perception in us.
63. Which one of the following is issued by the court in case of an illegal detention of a person?
- Habeas Corpus
 - Mandamus
 - Certiorari
 - Quo-warranto
64. The concept of 'Directive Principles of State Policy' incorporated in the Constitution of India was borrowed from the Constitution of
- Australia
 - USA
 - Canada
 - Ireland
65. Who coined the name 'PAKISTAN' ?
- Mohammad Ali Jinnah
 - Fazlul Haq
 - Liaquat Ali Khan

d) Chaudhry Rehmat Ali

66. Which country has the most islands in the world, the majority of which are uninhabited ?

- a) Finland b) Sweden
c) Indonesia d) Australia

67. "Bombs and Pistols do not make revolution. The sword of revolution is sharpened on the whetting-stone of ideas". Who said this ?

- a) Azad b) Bhagat Singh
c) Lala Lajpat Rai d) Mahatma Gandhi

68. Acid Rains are produced by

- a) CO_2 , CO and SO_2
b) Excess release of carbon monoxide by incomplete combustion
c) Excess NO_2 and SO_2 from burning fossil fuels
d) Ozone layer depletion

69. Which among the following international agencies publishes the 'ENERGY TRANSITION INDEX'?

- a) The World Bank
b) The World Economic Forum
c) The International Energy agency
d) The International Monetary Fund

70. Which among the following was the first registered Trade Union of India ?

- a) Indian Trade Union Congress
b) Madras Labour Union
c) Hindu Mazdoor Sabha
d) Centre of Indian Trade Unions

71. The Universities of Calcutta, Bombay and Madras were established as the outcome of which of the following, often referred as Magnacarta of English Education in India ?

- a) Hunter Commission Report, 1882
b) Indian Universities Act, 1904
c) Hartog Committee, 1929
d) Sir Charleswood's Dispatch, 1854

72. Which one of the following is not related to United Nations ?

- a) Multilateral Investment guarantee agency
b) International finance corporation
c) International center for settlement of investment dispute
d) Bank for International settlement

73. Who was first recipient of the Padma Shree

award from Meghalaya ?

- a) Patricia Mukhim b) Manas Chaudhuri
c) Prof. Badaplin War d) Silverine Swer

74. Point Calimere Wildlife Sanctuary is situated in which of the following State ?

- a) Haryana b) Jammu and Kashmir
c) Tamil Nadu d) Gujarat

75. 'Pusa decomposer' is related to which one of the following ?

- a) Organic farming b) Stubble burning
c) Sugar Production d) Soil reclamation

76. Three of the following four are alike in a certain way and hence form a group. Which one does not belong to the group ?

- a) Year b) Month
c) Week d) Time

77. Three of the following four are alike in a certain way and hence form a group. Which one does not belong to the group ?

- a) Pencil b) Chalk
c) Note book d) Crayon

78. If Ramesh's mother's brother is Alok's father's brother, then Ramesh's mother is Alok's

- a) Grandmother b) Aunt
c) Cousin d) Sister-in-law

79. In a certain code 'GIVE' is written as 'VIEG' and 'OVER' is written as 'EVRO'. How will 'DISK' be written in that code ?

- a) SIDK b) KISD
c) KDSI d) SIKD

80. $0.08 \times ? \times 1.6 = 0.2944$

- a) 1.3 b) 0.4
c) 0.2 d) 2.3

81. $36\% \text{ of } 4800 \times 0.2\% \text{ of } 1320 = ?$

- a) 4535.52 b) 4551.36
c) 4561.92 d) 4572.48

82. $93 \times 45 \div 25 = ?$

- a) 167.4 b) 837
c) 279 d) 130.2

83. Find the next number in the series :

5, 13, 25, 41, ?

- a) 58 b) 61
c) 96 d) 73

84. Alfred buys an old scooter for Rs.4700.00 and then spends Rs.800.00 on its repair. If he sells the scooter for Rs.5800.00, the gain percent is

- a) 6.90% b) 5.45%
c) 9.3% d) 12.6%

85. 'Much' is related to 'Many' in the same way as 'Measure' is related to

- a) Calculate b) Count
c) Weigh d) Measurement

86. 'Clue' is related to 'Mystery' in the same way as 'warning' is related to

- a) Precaution b) Disaster
c) Dream d) Danger

87. Select the related word from the given alternatives SEISMOMETER : EARTHQUAKES : THERMOMETER : ?

- a) Fever b) Doctor
c) Mercury d) Temperature

88. Select the related word from the given alternatives

PLAY : ACTOR : CONCERT : ?

- a) Musician b) Piano
c) Percussion d) Symphony

89. Anjali says, "He is the only son of the father of my sister's brother." How is that person related to Anjali ?

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

90. From the given alternative words, select the word which cannot be formed using the letters of the given word (Using the alphabet only once)

THERMODYNAMICS

- a) Modern b) Dynamo
c) Mathematics d) Mother

91. ERID is related to DIRE in the same way as RIPE is related to ____ ?

- a) EPIR b) PERI
c) EPRI d) IPRE

92. $10.8 \times 5.5 \times 8.4 = ?$

- a) 458.69 b) 489.96
c) 498.96 d) 485.69

93. Output of a particular program followed the

pattern given below. Find the missing number :

112, 141, 170, 199, ____, 257, 286

- a) 222 b) 238
c) 245 d) 228

94. The average age of a group of 15 students was 14. The average age increased by 2 year when two new students joined the group. What is the average age of the two new students who joined the group ?

- a) 28 b) 16
c) 31 d) 22

95. Which of the following years is not a leap year ?

- a) 1600 b) 2100
c) 2000 d) 2024

96. Vicky can do a work in 15 days while Kenneth can do the same in 20 days. If both of them start doing the work at the same time, what fraction of work will be left after 4 days ?

- a) $\frac{8}{15}$ b) $\frac{7}{15}$
c) $\frac{4}{15}$ d) $\frac{3}{4}$

97. 14.5% of 608 = ?

- a) 88.16 b) 86.18
c) 81.68 d) 86.88

98. $840 \div 40 \div 0.5 = ?$

- a) 8.5 b) 21
c) 10.5 d) 42

99. What would be the simple interest accrued in 4 years on a principal of Rs.18,440 @ 15% p.a ?

- a) Rs.11,075 b) Rs.12,250
c) Rs.11,064 d) Rs.12,985

100. A florist bought 360 roses at Rs.8 per dozen. He sold all of them at Rs.1 each. He made a profit of ____ ?

- a) Rs.240 b) Rs.315
c) Rs.120 d) Rs.180

PART - C - MATHEMATICS

Marks : 100

Each question carries 2 marks :

101. Find the smallest number which when divided by 35, 56 and 91 leaves remainder 5 in each case.

- a) 3640 b) 3645
c) 3635 d) 3655

102. Evaluate : 16% of 150 - 25% of 84 + 8% of 550

- a) 45 b) 47
c) 49 d) 54

103. The sum of first n even natural number is given by the relation $s = n(n+1)$. Find n if the sum is 420

- a) 18 b) 19
c) 20 d) 21

104. By selling an article for Rs.810, a man loses 10%. At what price should he sell it in order to gain 8% ?

- a) Rs.970 b) Rs.985
c) Rs.972 d) Rs.982

105. A manufacturer buys raw materials worth Rs.50,000 and pays a sales tax of 40%. He sell the ready stock at Rs.78000 and charges sales tax at 8%. Find the value added tax (VAT) paid by the manufacturer.

- a) 3240 b) 4240
c) 5240 d) 6240

106. A man spends 65% of his salary and saves Rs.525 per month. Find his monthly salary.

- a) Rs.1300 b) Rs.1500
c) Rs.1900 d) Rs.2500

107. If 2 is added to the numerator of a fraction

it reduces to $\frac{1}{2}$ and if 1 is subtracted from the

denominator it reduces to $\frac{1}{3}$. Find the fraction

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

108. The denominator of a fraction is 3 more than its numerator. The sum of the fraction and

its reciprocal is $2\frac{9}{10}$, find the fraction

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

109. If $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a-b\sqrt{3}$, then the values

of 'a' and 'b' are

- a) 7, 6 b) 8, 9
c) 11, 6 d) 9, 11

110. If $x = 3 + \sqrt{8}$, then the value of $x^2 + \frac{1}{x^2}$ is

- a) 24 b) 34
c) 38 d) 42

111. Simplify : $\frac{16 \times 2^{n+1} - 4 \times 2^n}{16 \times 2^{n+2} - 2 \times 2^{n+2}}$

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

112. If x, y and z are positive real numbers then

$\sqrt{x^{-1}y} \cdot \sqrt{y^{-1}z} \cdot \sqrt{z^{-1}x}$ is -

- a) 0 b) 1
c) 2 d) $\frac{1}{2}$

113. A and B each have certain number of oranges. A says to B "If you give me 10 of your oranges, I will have twice the number of oranges left with you". B replies, "If you give me 10 of your oranges, I will have the same number of oranges as left with you". Find the number of oranges B have

- a) 40 b) 50

c) 60

d) 70

114. A takes 10 days less than the time taken by B to finish a piece of work. If both A and B together can finish the work in 12 days, find the time take by B alone to finish the work.

a) 20

b) 30

c) 35

d) 40

115. A two digits number is 4 times the sum of its digits. If 18 is added to the number, the digits are reversed. Find the number

a) 22

b) 24

c) 26

d) 28

116. If three times the larger of two numbers is divided by the smaller one, we get 4 as the quotient and 3 as the remainder. Also if seven times the smaller number is divided by the larger one we get 5 as the quotient and 1 as the remainder. Find the smaller number

a) 15

b) 16

c) 17

d) 18

117. What is the 19th term of the sequence

$$a(n) = \frac{n(n-2)}{n+3}$$

a) $\frac{303}{22}$

b) $\frac{332}{22}$

c) $\frac{323}{19}$

d) $\frac{323}{22}$

118. Divide 16 into two parts such that twice the square of the larger part exceeds the square of the smaller part by 164. Find the larger part

a) 12

b) 10

c) 8

d) 6

119. One-fourth of a herd of camels was seen in the forest. Twice the square root of the herd had gone to the mountain and the remaining 15 camels were seen on the bank of the river. Find the total number of camels.

a) 30

b) 32

c) 34

d) 36

120. Two trains running in opposite directions cross a post standing on the platform in 30 seconds and 20 seconds respectively and they cross each other in 25 seconds. Then the ratio of their

speed is

a) 3 : 4

b) 2 : 3

c) 3 : 5

d) 1 : 2

121. 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 girls are there in the school ?

a) 1200

b) 1500

c) 1400

d) 1300

122. In an Examination, the number of those who passed and the number of those who failed were in the ratio 3 : 1. Had 8 more appeared and 6 less passed, the ratio of passes to failures would have been 2 : 1. Find the number of candidates who appeared.

a) 132

b) 134

c) 136

d) 138

123. In an election between two candidates, one candidate secured 43% of the total votes polled and lost the election by 4900 votes. Find the total number of votes polled

a) 33000

b) 34000

c) 35000

d) 37000

124. 5% of the population of a certain town was killed in the bombarded and 70% of the remaining died in panic. If the population of the town is now 44175, find the population of the town at the beginning before the bombardment

a) 50000

b) 55000

c) 60000

d) 65000

125. Find the measure of an angle, if seven times its complement is 10° less than three times its supplement

a) 15°

b) 20°

c) 25°

d) 30°

126. The mean of first 8 observations is 18 and last 8 observations is 20. If the mean of all 15 observations is 19, find the 8th observation

a) 17

b) 18

c) 19

d) 21

127. Eight men can dig a field in 14 days working 6 hours a day. In how many days can 7 men dig the same field, working 8 hours a day.

a) 10

b) 11

c) 12

d) 13

128. A fort had provisions for 300 men for 90

area of a cylinder and its curved surface area, given that its height and radius are 7.5cm and 3.5cm respectively.

- a) 15:12 b) 17:15
c) 22:15 d) 24:21

144. The sum of two numbers is 1000 and the difference between their square is 256000. Find their difference

- a) 254 b) 256
c) 258 d) 260

145. A is elder to B by 2 years. A's father F is twice as old as A and B is twice as old as his sister S. If the ages of the father and sister differ by 40 years, find the age of A's father F.

- a) 50 b) 48
c) 52 d) 54

146. 30 men can build a wall in 50 days. How many more men are required to build another wall, double in size in 75 days ?

- a) 8 b) 10
c) 12 d) 14

147. Calculate the compound interest on Rs. 1000 for 2 years at $8\frac{1}{2}\%$ per annum. Interest being compounded annually

- a) 165.23 b) 170.23
c) 177.23 d) 187.33

148. A 1.5m tall boy stands at a distance of 3m from the lamp-post and casts a shadow of 4.5m on the ground. Find the height of the lamp-post.

- a) 2.3m b) 2.2m
c) 2.5m d) 2.4m

149. From the top of a building 60m high, the angle of depression of the top and bottom of a tower are observed to 30° and 60° . Find the height of tower

- a) 30m b) 40m
c) 20m d) 50m

150. The circumference of two circles are in the ratio 2:3. Find the ratio of their areas

- a) 4:5 b) 4:7
c) 5:9 d) 4:9
