

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

QUESTION BOOKLET

SERIES III

Subjects : General English, General Knowledge & Aptitude, Mathematics

BOOKLET SERIAL NO.

108675

Marks : 300

Time : 2 $\frac{1}{2}$ 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) (●) (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 : In the following questions, some of the sentences have errors and some have none. Find out which part of the sentence has an error. If there is no mistake, the answer is 'No error.'

1. No sooner (a) / had he said it when he realised (b) / his folly (c) / no error (d).

2. Yesterday Mark got the (a) / information that his father (b) / died of accident (c) / no error (d).

3. Though he was (a) / highly educated (b) / but he was very modest (c) / no error (d).

4. A man jumped (a) / in the river (b) / in a state of depression (c) / no error (d).

5. He came (a) / from abroad (b) / for seeing me (c) / no error (d).

6. It was so lovely weather (a) / that we spent (b) / the whole day in the garden (c) / no error (d).

7. Jack was living in Dover (a) / for five years (b) / before the year 2020 (c) / no error (d).

8. Us (a) / may stay (b) / in Darjeeling until the monsoon starts (c) / no error (d).

9. The road (a) / to famous movement (b) / passes through a forest (c) / no error (d).

10. He can (a) / only be cured (b) / by a surgical procedure (c) / no error (d).

Directions : In each of the questions below, only one among the given alternatives is correctly spelt. Find the correctly spelt word.

11. a) Aliennate b) Allienate
c) Alienate d) Alienatte

12. a) Martir b) Marter

c) Martyer d) Martyr

13. a) Forefiet b) Fourfeit
c) Forfeit d) Forefiet

14. a) Mosquito b) Mosquetoe
c) Mosqueto d) Mosqiuto

15. a) Tarif b) Tarriff
c) Tariff d) Tarrif

16. a) Endevor b) Endevour
c) Endeavour d) Endavour

17. a) Apparrell b) Aparrel
c) Aparral d) Apparel

18. a) Commemorate b) Comemmorate
c) Comemoratte d) Comammorete

19. a) Racommend b) Recomend
c) Recammend d) Recommend

20. a) Monastry b) Monestary
c) Monastery d) Monastary

Directions : Read the passage carefully. Select the right answer from the options provided.

Nehru was a many-sided personality. He enjoyed reading and writing books as much as he enjoyed fighting political and social evils or resisting tyranny. In him the scientist and the humanist were held in perfect balance. While he kept looking at social problems from a scientific standpoint, he never forgot that we should nourish the total man. As a scientist, he refused to believe in a benevolent power interested in men's affairs; but, as a self-proclaimed pagan, he loved affirming his faith in life and beauty of nature. Children he adored. Unlike Wordsworth he did not see them trailing clouds of glory from their recent sojourn in heaven. He saw them as blossoms of promise and renewal, the only hope for mankind.

21. According to the passage, Nehru was a
a) Sociologist

- b) Self-proclaimed leader
c) Balanced personality
d) Confused personality
- 22.** The passage suggests that Nehru had faith in
a) Paganism b) Heaven
c) Nature d) Religion
- 23.** According to the writer, Nehru believed in
a) Scientific progress b) The total man
c) Children d) English poets
- 24.** Nehru's views of children was
a) Compassionate b) Optimistic
c) Sympathetic d) Scientific
- 25.** The word 'sojourn' in the passage means
a) Departure b) Return
c) Stay d) Arrival
- Directions : Choose the correct alternative to fill in the blank.**
- 26.** The explosion that _____ the bus killed twelve people.
a) Wrecked b) Deflated
c) Stalled d) Hindered
- 27.** There was some _____ between the member's version and the committee's version.
a) Discourse b) Discrepancy
c) Certainty d) Recurrence
- 28.** We have talked a lot; now let us _____ to work.
a) Get down b) Set off
c) Take off d) Sit up
- 29.** The life-guard would not let the children _____ at the deep end of the pool.
a) Swims b) Swim
c) Swam d) To swim
- 30.** The audience watched the clowns _____ their act.
a) Performs b) Perform
c) Performed d) Are performing
- Directions : Out of the four alternatives, choose the word which is most similar in meaning to the given word.**
- 31. Jest**
a) Grave b) Happy
c) Humour d) Joy
- 32. Concord**
a) Faction b) Arm
c) Unity d) Contract
- 33. Frail**
a) Delicate b) Firm
c) Praise d) Weak
- 34. Coerce**
a) Cooperate b) Compel
c) Compromise d) Concern
- 35. Thrift**
a) Swift b) Hunger
c) Save d) Laze
- 36. Voluble**
a) Able b) Fluent
c) Voluminous d) Value
- 37. Luminous**
a) Glow b) Lucid
c) Lucky d) Vague
- 38. Onerous**
a) Burdensome b) Unity
c) Single-minded d) Easy
- 39. Recoil**
a) Bounce b) Turn
c) Move d) Throw
- 40. Banquet**
a) Ornament b) Feast
c) Palace d) Table
- Directions : Out of the four alternatives, choose the word which is most opposite in meaning to the given word.**
- 41. Loquacious**
a) Quiet b) Width
c) Space d) Talkative
- 42. Botch**
a) Mar b) Reform
c) Spread d) Lock
- 43. Crisp**

- a) Coherent b) Soft
c) Clear d) Bright

- 44. Gusto**
a) Elan b) Cold
c) Warm d) Quick

- 45. Tempest**
a) Snare b) Calm
c) Violent d) Time

- 46. Yarn**
a) Tale b) Fact
c) Meat d) Skill

- 47. Finesse**
a) Design b) Blunt
c) Mild d) Sweet

- 48. Stealth**
a) Steal b) Open
c) Cloak d) Force

- 49. Credulous**
a) True b) Humour
c) Skeptical d) Courtesy

- 50. Infamy**
a) Fame b) Fire
c) Notoriety d) Honest

PART - B -GENERAL KNOWLEDGE & APTITUDE

Marks : 100

Each question carries 2 marks :

Directions : Q.No. 72-76 are based on the following data for an examination.

| | |
|---------------------------------------|-------|
| Candidates appeared ----- | 10500 |
| Passed in all the five subjects ----- | 5685 |
| Passed in three subjects only ----- | 1498 |
| Passed in two subjects only ----- | 1250 |
| Passed in one subject only ----- | 835 |

| | |
|--------------------------------|-----|
| Failed in English only ----- | 78 |
| Failed in Maths only ----- | 275 |
| Failed in Physics only ----- | 149 |
| Failed in Chemistry only ----- | 147 |
| Failed in Biology only ----- | 221 |

- c) Trophic level
- d) Biodiversity

98. Market value of final goods and services in the country plus income earned by the Indians from foreign countries, minus income earned by the foreigners in India is called as which of the following concepts ?

- a) Gross Domestic Product
- b) Gross National Product
- c) Net Domestic Product
- d) Net National Product

99. Subsidies mean

- a) Payment by government for purchase of goods and services
- b) Payment made by business enterprises to factors of production
- c) Payment made by companies to shareholders
- d) Payment made by the government to business enterprises without buying any goods and services

100. 'Agenda 21' is a major voluntary action plan dealing with

- a) Sustainable Development
- b) Global Warming
- c) International Trade
- d) Population Growth

PART - C - MATHEMATICS

Marks :100

Each question carries 2 marks :

- 108.** In an examination, it is required to get 1050 of the aggregate marks to pass. A student gets 924 marks and is declared failed by 9% marks. What are the maximum aggregate marks a student can get ?

a) 1250 b) 1525
c) 1400 d) Cannot be determined

109. Rina invests Rs.72318, which is 17% of her annual income in mutual funds. What is her monthly income ?

a) Rs.33,600 b) Rs.32,990
c) Rs.35,450 d) None of these

110. If 3rd of the month falls on Friday, what day will be on the 4th day after 21st of the month?

a) Monday b) Saturday
c) Friday d) Tuesday

111. A and B together can do a piece of work in 9 days. If A does thrice the work of B in a given time, the time A alone will take to finish the work is

a) 4 days b) 6 days
c) 8 days d) 12 days

112. The diameters of two cylinders are in the ratio 3:2 and their volumes are equal. The ratio of their heights is

a) 2:3 b) 3:2
c) 9:4 d) 4:9

113. A trader sold a cycle at a loss of 10%. If the selling price had been increased by Rs.200, there would have been a gain of 6%. The cost price of the cycle is

a) Rs.1,200 b) Rs.1,205
c) Rs.1,250 d) Rs.1,275

114. In a city, 40% of the people are illiterate and 60% are poor. Among the rich, 10% are illiterate. The percentage of the illiterate poor population is

a) 36 b) 60
c) 40 d) 50

115. In a triangle PQR, the side QR is extended to S. $\angle QPR^\circ = 72^\circ$ and $\angle PRS^\circ = 110^\circ$, then

the value of $\angle PQR$ is

- a) 38°
- b) 32°
- c) 25°
- d) 29°

116. When a number is divided by 56, the remainder will be 29. If the same number is divided by 8, then the remainder will be

- a) 6
- b) 7
- c) 5
- d) 3

117. If a shopkeeper marks his goods for a certain amount so as to get 25% gain after allowing a discount of 20%, then his marked price is

- a) Rs.156.25
- b) Rs.146.25
- c) Rs.166.25
- d) Rs.150.25

118. The average of marks of 17 students in an examination was calculated as 71. But it was later found that the marks of one student had been wrongly entered as 65 instead of 56 and another as 24 instead of 50. The correct average is

- a) 70
- b) 71
- c) 72
- d) 73

119. If θ is a positive acute angle and $5\cos\theta + 12\sin\theta = 13$ then the value of $\cos\theta$ is

- a) $12/13$
- b) $5/13$
- c) $5/12$
- d) $1/5$

120. The angle of elevation of a pillar from the foot and top of the building 20m high, are 60° and 30° respectively. The height of the pillar is

- a) 10m
- b) 10.5m
- c) 60m
- d) 30m

121. Carmel started cycling along the boundaries of a square field from corner point A. After half an hour he reached the corner point C, diagonally opposite to A. If his speed was 8 km/hour, what is the area of the field in square kilometers?

- a) 64
- b) 8
- c) 4
- d) Cannot be determined

122. The number of solid steel balls each of radius 2cm that can be made by melting a sphere of radius 8cm is

- a) 4
- b) 16
- c) 32
- d) 64

123. The number of students in each section of

a school is 24. After admitting new students, three new sections were started and now the total number of sections is 16 and there are 21 students in each section. The number of new students admitted is

- a) 24
- b) 14
- c) 48
- d) 64

124. The total of three consecutive even numbers is 36 more than the average of these three numbers. Which of the following is the second of these three numbers?

- a) 16
- b) 20
- c) 18
- d) Data inadequate

125. The ratio of Wanti's age to Zora's age is 4:5 and the sum of their ages is 81. What will be the ratio after 9 years?

- a) 6:5
- b) 5:4
- c) 5:6
- d) 3:4

126. If 5 men take 15 hours to harvest a crop, then 7 women will do the same job in how many hours, given that a man does 40% more work as compared to the work done by a woman?

- a) 15 hours
- b) 20 hours
- c) 18 hours
- d) None of these

127. 40 men can build a wall 20m high in 15 days. Then how many men are required to build a similar wall 25m high in 6 days?

- a) 100
- b) 125
- c) 150
- d) 200

128. A started with Rs.4,500 and B joined afterwards with Rs.3,000. If the profits at the end of one year were divided in the ratio 2:1 respectively, then B would have joined A for business after how many months?

- a) 1 month
- b) 2 months
- c) 3 months
- d) 4 months

129. Aman got twice as many marks in English as in Science. His total marks in English, Science and Maths are 180. If the proportion of his marks in English and Maths is 2:3, what are his marks in Science?

- a) 45
- b) 90
- c) 30
- d) 60

130. What is 40% of a number whose 200% is 90?

- a) 16
- b) 36

c) 45

d) 18

131. Out of two candidates who had contested for an election, one candidate who got 60% of the total valid votes was elected by a margin of 1800 votes. What was the total number of valid votes ?

- a) 4500
c) 5500

- b) 3000
d) None of these

132. The difference between the compound interest and simple interest earned at the end of second year on a sum of money at the rate of 10% per annum is Rs.20. What is the sum ?

- a) Rs.4,000
c) Rs.1,500

- b) Rs.2,000
d) None of these

133. Out of a sum of Rs.625, a part was lent at 5% and the other at 10% simple interest. If the interest on the first part after two years is equal to the interest on the second part after 4 years, then the second sum is equal to

- a) Rs.125
c) Rs.200

- b) Rs.250
d) Rs.300

134. A train starts from station X at the speed of 60 km/hour and reaches station Y in 45 minutes. If the speed is reduced by 6 km/hour, how much more time will the train take to return from station Y to X ?

- a) 5 minutes
c) 10 minutes

- b) 7 minutes
d) 12 minutes

135. A boy walks to school at the rate of 3 km/hour and reaches school at 9.35 a.m. Then he walks at 5 km/hour and reaches at 9.25 a.m. If his school time is 9.30 a.m., how far is his school from his house ?

- a) 2 km
c) 1.25 km

- b) 2.5 km
d) 1.5 km

136. In what ratio must rice at Rs.9.30 per kg be mixed with rice of Rs.10.80 per kg so that the mixture be worth Rs.10 per kg ?

- a) 5:6
c) 8:7

- b) 6:5
d) 7:8

137. A wheel makes 1000 revolution in covering a distance of 88 kms. What is the radius of the wheel ?

- a) 14m
c) 24m

- b) 18m
d) 30m

138. The digit in the unit's place of the product $81 \times 82 \times 83 \times \dots \times 89$ is

- a) 0
c) 4

- b) 2
d) 6

139. The value of $0.\overline{57}$ is

- a) 57/10
c) 26/45

- b) 57/99
d) 52/9

140.

$$\frac{3}{4} \left(1 + \frac{1}{3}\right) \left(1 + \frac{2}{3}\right) \left(1 - \frac{2}{5}\right) \left(1 + \frac{6}{7}\right) \left(1 - \frac{12}{13}\right) \text{ is}$$

simplified to

- a) 1/5
c) 1/7

- b) 1/6
d) None of these

141. The ratio of Rose's and Jane's ages is 3 : 5 respectively. After ten years this ratio will become 2 : 3. What is Rose's age in years ?

- a) 50
c) 60

- b) 40
d) Cannot be determined

142. Number of students who have opted for the subjects A, B and C are 60, 84 and 108 respectively. The examination is to be conducted for these students such that only the students of the same subject are allowed in one room. Also the number of students in each room must be same. What is the minimum number of rooms that should be arranged to meet all these conditions ?

- a) 28
c) 12

- b) 60
d) 21

143. A watch dealer incurs an expense of Rs.150 for producing every watch. He also incurs an additional expenditure of Rs.30,000 which is independent of the number of watches produced. If he is able to sell a watch during the season, he sells it for Rs.250. If he fails to do so, he has to sell each watch for Rs.100. If he is able to sell only 1200 out of 1500 watches he has made, then he has made a profit of

- a) Rs.90,000
c) Rs.45,000

- b) Rs.75,000
d) Rs.60,000

144. A report consists of 20 sheets each of 55 lines and each such line consists of 65 characters. This report is reduced onto sheets each of 65 lines such that each line consists of 70 characters. The percentage reduction in number of

sheets is closest to

- a) 20%
- b) 5%
- c) 30%
- d) 35%

145. Three maths classes X, Y and Z take an algebra test. The average score of class X is 83. The average score of class Y is 76. The average score of class Z is 85. The average score of class X and Y is 79 and average score of class Y and Z is 81. What is the average score of classes X, Y and Z ?

- a) 81.5
- b) 80.5
- c) 83
- d) 78

146. My brother is 3 years elder to me. My father was 28 years of age when my sister was born while my mother was 26 years of age when I was born. If my sister was 4 years of age when my brother was born, then, what was the age of my father and mother respectively when my brother was born ?

- a) 32 years, 23 years
- b) 32 years, 29 years
- c) 35 years, 29 years
- d) 35 years, 33 years

147. An alloy contains copper and zinc in the ratio 9 : 4. The zinc required to be melted with 24 kg of copper is

- a) $10\frac{2}{3}$ kg
- b) $10\frac{1}{3}$ kg
- c) $9\frac{2}{3}$ kg
- d) 9 kg

148. 10 men can complete a piece of work in 15 days and 15 women can complete the same work in 12 days. If all the 10 men and 15 women work together, in how many days will the work get completed ?

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

149. Two trains, each 100m long moving in opposite directions, cross each other in 8 seconds. If one is moving twice as fast as the other, then the speed of the faster train is

- a) 30 km/hr
- b) 45 km/hr

- c) 60 km/hr
- d) 75 km/hr

150. A trader owes a merchant Rs. 10,028 due 1 year hence. The trader wants to settle the account after 3 months. If the rate of interest is 12% per annum, how much should he pay ?

- a) Rs. 9025.20
- b) Rs. 9200
- c) Rs. 9600
- d) Rs. 9560
