

3102-GBU-BRC-PM

(DO NOT OPEN THE BOOKLET UNLESS TOLD TO DO SO)

C

UB Group
Paper – II

Booklet Series

Written Test (Objective Type)

Test Booklet No.

No. Of Questions - 50

Max Marks – 100

Time – 30 Minutes

Instructions:

- I. Read carefully the instructions given below before answering the questions.
- II. This multiple choice question paper I consists of 50 questions, Booklet carries 8 pages.
- III. Fill your Roll No, Paper I Test Booklet No, Booklet Series clearly without any overwriting.
- IV. Darken only **ONE** Choice with **black Ball pen** from the four options marked **a, b, c, d** on the **OMR** sheet provided.
- V. The instructions on the OMR sheet should be followed carefully.
- VI. Each question carries 2 marks.
- VII. All questions are compulsory.
- VIII. Do not write anything on this question booklet. Only filled OMR sheet will be accepted as answer script.
- IX. You will be provided extra sheets for rough works which must be later attached at the end of pages.
- X. Candidate should allocate their time judiciously in all the Questions.

ROUGH WORK

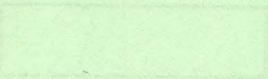
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Booklet Series

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Paper - II



Written Test (Objective Type)

Test Booklet No.

Total Questions - 50
Max Marks - 100
Time - 30 Minutes

Instructions

- I. Read carefully the instructions given below before answering the questions.
- II. The booklet contains questions and 1 answer of 50 questions. There is a paper for each question.
- III. The question paper is based on the booklet series clearly indicated on the cover page.
- IV. The question paper is to be read from the top of the page and not from the bottom.
- V. The questions on the UPSC are to be answered in the booklet.
- VI. Each question carries 2 marks.
- VII. All questions are compulsory.
- VIII. Do not write anything on this question paper. Only filled OMR sheet will be accepted for marking.
- IX. You will be provided with a rough sheet which must be kept attached to the question paper.
- X. Candidates should discuss the answer in their own handwriting.

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ELEMENTARY MATHEMATICS, POWER OF REASONING & ELEMENTRY SCIENCE

51. The population of a certain village increases by 5% every year. Its present population is 8000. The population after 3 years will amount to
a. 9261
b. 8261
c. 9161
d. 9200
52. The average age of 30 constables is 9 years. If the age of the commander is added it becomes 10 years, the age of the commander (in years) is :
a. 27
b. 31
c. 35
d. 40
53. A shirt costs Rs 64 after a 20% discount. What was its original value?
a. Rs. 76
b. Rs. 80
c. Rs. 88
d. Rs. 86
54. Find out the number missing in the following series
2,5,10,17,?,37,50,65.
a. 27
b. 22
c. 24
d. 26
55. In a box there are 10 white balls and 10 black balls. At least how many balls should be taken out to have two balls of the same color?
a. 2
b. 3
c. 4
d. 5
56. What should come in place of question mark (?) in the following series of numbers?
16, 24, 34, 46?
a. 58
b. 60
c. 62
d. 64
57. Light beam, which is highly directional, is called
a. Eraser
b. Grazer
c. Maser
d. Laser
58. If $35 \times 35 = 1225$, then 3.5×3.5 will be
a. 122.5
b. 12.25
c. 1.225
d. 1121.5
59. What will be the next number in the series 2,5,8,11,14, _____
a. 17
b. 18
c. 16
d. 19
60. The average of four numbers is 20. If three numbers are 18, 19 & 15, what is the fourth number?
a. 28
b. 18
c. 19
d. 21

61. Allen buys a car for Rs. 4,46,000 and sells it for Rs. 5,20,000. What is his profit?
- a. Rs. 74000 b. Rs. 72000
c. Rs. 76000 d. Rs. 78000
62. The ratio of the age of a father to that of his son is 5:2. If the product of their ages in years is 1000, then the father's age (in years) after 10 years will be
- a. 50 b. 60
c. 80 d. 100
63. The marked price of an article is Rs. 80. If it is sold at Rs. 72, what is the discount?
- a. 10% b. 5%
c. 8% d. 6%
64. M/s. R.K. Enterprise announced a festival discount of 30% on mobile phones. James bought a mobile phone for himself & got a discount of Rs. 960. What was the list price of the mobile phone?
- a. Rs. 3000 b. Rs. 3200
c. Rs. 3400 d. Rs. 3600
65. What causes day and night?
- a. Earth's rotation around its axis b. Earth's rotation around the sun
c. Earth's rotation around the moon d. None of the above
66. Ashok repaid an amount of Rs. 9,125 to the bank, which includes an interest of Rs. 625. What was the money that he borrowed from the bank?
- a. Rs. 8500 b. Rs. 8550
c. Rs. 8400 d. Rs. 8450
67. Calculate the compound interest on Rs. 3600 at 10% per annum for 3 years, compounded annually.
- a. Rs. 1301.606 b. Rs.1191.60
c. Rs.2191.60 d. Rs. 3191.6
68. In a battalion camp there are 800 officers and men. There is enough ration for them for 60 days. If 400 more men arrive at the camp, how many days will the ration last?
- a. 40 days b. 30 days
c. 24 days d. 20 days
69. Helen said that the ratio of her weight to that of Harry is 8:9. If Helen weighs 40 kg, what is the weight of Harry?
- a. 42 kg b. 43 kg
c. 45kg d. 50 kg
70. A truck driver drives his truck to a distance of 120 km in 2 hours 30 minutes. What is his speed?
- a. 48 km/h b. 49 km/h
c. 50 km/h d. 52 km/h

71. Which of the following diseases usually spread through air?
- | | |
|-----------------|------------|
| a. Plague | b. Typhoid |
| c. Tuberculosis | d. Cholera |
72. The area of a rectangular field is 836 sq m. One side of the rectangle is 22 m. What is the perimeter of the field?
- | | |
|----------|----------|
| a. 120 m | b. 130 m |
| c. 140 m | d. 160 m |
73. Find the area of a sphere of diameter 20 cm (Use $\pi = 3.14$)
- | | |
|---------------|---------------|
| a. 1250 sq cm | b. 1256 sq cm |
| c. 1300 sq cm | d. 1356 sq cm |
74. What is the volume of a sphere of diameter 20 cm (Use $\pi = 3.14$)
- | | |
|--------------------|--------------------|
| a. 4186.6 cubic cm | b. 4286.6 cubic cm |
| c. 4386.6 cubic cm | d. 4486.6 cubic cm |
75. The speeds of two trains are in the ratio 4:5. If the speed of the first train is 48 km/h, what is the speed of other train?
- | | |
|------------|------------|
| a. 50 km/h | b. 60 km/h |
| c. 70 km/h | d. 80 km/h |
76. Harry sold a cow for Rs 136 at a loss of 15%. At what price should he have sold it to gain 15%?
- | | |
|------------|------------|
| a. Rs. 184 | b. Rs. 190 |
| c. Rs. 195 | d. Rs. 200 |
77. 15 men do a work in 20 days. In how many days will 20 men do the full work?
- | | |
|------------|------------|
| a. 30 days | b. 15 days |
| c. 40 days | d. 20 days |
78. The average of the following five numbers is 8. Find the missing number in 7, 5, ?, 3, 12.
- | | |
|-------|-------|
| a. 14 | b. 8 |
| c. 13 | d. 12 |
79. If the population of a town at present is 10648. If the rate of increase in population is estimated to be 10% per year, what was the population 3 years before?
- | | |
|-----------|---------|
| a. 10,000 | b. 9000 |
| c. 11000 | d. 8000 |
81. Amar and Bablu together can do a work in 8 days. If Amar alone can do it in 12 days, then in how many days can Bablu do it?
- | | |
|-------|-------|
| a. 12 | b. 20 |
| c. 24 | d. 28 |
82. The price of one dozen pens is Rs. 540. What will be price of 319 such pens?
- | | |
|--------------|--------------|
| a. Rs. 1000 | b. Rs. 1500 |
| c. Rs. 14355 | d. Rs. 15355 |

83. A rectangular ground as length of 35m & breadth 16m., If the rate of fencing is Rs. 7 per meter, what is the cost of the fencing?
- a. Rs. 3920
b. Rs. 602
c. Rs. 714
d. Rs. 357
84. Raju is standing facing North. He goes 30m, ahead and turns left and goes for 15 m. Now he turns right and goes for 50 m and finally turns to his right and walks. In which direction is he heading?
- a. North
b. East
c. South
d. West
85. Allen invests 4% of his income on entertainment. If his income is Rs. 2500, how much does he invest on entertainment?
- a. Rs. 100
b. Rs. 150
c. Rs. 200
d. Rs. 250
85. A train, 110 m long is running at a speed of 60 Km/hour. How many seconds does it take to cross another train 170 m long, standing on parallel track?
- a. 15.6
b. 16.8
c. 17.2
d. 182
87. The number of chambers in a human heart is
- a. 4
b. 2
c. 3
d. 5
88. Akbar bought a computer for Rs 20000. For how much should he sell it so as to gain 20%.
- a. Rs. 22000
b. Rs. 24000
c. Rs. 28000
d. Rs. 30000
89. If the average of 5 numbers is 5.4, what is the total sum of these numbers?
- a. 25
b. 29
c. 27
d. 30
90. 12kg of rice costing Rs. 30 per kg is mixed with 8 kg of rice costing Rs. 40 per kg. The average price per kg of mixed rice is
- a. Rs. 38
b. Rs. 37
c. Rs. 35
d. Rs. 34
91. The difference between 5 times a certain number & two times the same number is 36. What is the number?
- a. 21
b. 21
c. 15
d. 10
92. In an examination the candidates from Roll no. 2026 to Roll no. 2050 are to sit in a room. How many chairs will be required for them?
- a. 23
b. 24
c. 25
d. 26

- PER
93. If a person is standing sixth in the queue from both ends, how many persons in all are standing in the queue?

a. 9	b. 11
c. 12	d. 13
 94. The perimeter of a square plot of land is 64m. What is the area of the plot?

a. 256 sqm	b. 300 sqm
c. 416 sqm	d. 800 sqm
 95. What is the value of 46^2 ?

a. 2116	b. 1116
c. 23	d. 92
 96. A school playground is in the form of a square, 90 metre on each side. What is the area of the field in sqm?

a. 810sqm	b. 8100sqm
c. 180sqm	d. 1800sqm
 97. Roshan bought a second hand car for Rs. 1,25,000 & spent 15000 for its repairs. If he sold that car for Rs. 1,61,000, What is the profit percent?

a. 10%	b. 15%
c. 20%	d. 25%
 98. By selling a saree for Rs 864 a shop keeper earns a profit of 8%. Find the cost price.

a. Rs. 800	b. Rs. 700
c. Rs. 780	d. Rs. 750
 99. Anwar had to sell his television set at a loss of 12%. If the selling price was Rs. 7040, what was its cost price?

a. Rs. 8000	b. Rs. 7500
c. Rs. 7250	d. Rs. 79000
 100. On the moon, the weight of a man will

a. Increase	b. Decrease
c. Remain the same	d. May increase or decrease

ROUGH WORK

91. The perimeter of a square is 100 units. What is the length of one side?
- a. 25 units
b. 50 units
c. 75 units
d. 100 units
92. A school playground is in the form of a square. 90 yards on each side. What is the perimeter of the playground?
- a. 360 yards
b. 450 yards
c. 180 yards
d. 1800 yards
93. Rishu bought a second-hand bicycle for Rs. 1200. He spent 150 on its repair. If he sold it for Rs. 1350, what is the profit percent?
- a. 10%
b. 15%
c. 12%
d. 25%
94. If selling a pair of shoes for Rs. 800 results in a profit of 25%, find the cost price.
- a. Rs. 600
b. Rs. 700
c. Rs. 180
d. Rs. 100
95. A shopkeeper had to sell his stock at a discount of 10%. He had to sell 100 more units to clear the stock. What was the original price of the stock?
- a. Rs. 800
b. Rs. 1000
c. Rs. 750
d. Rs. 900
96. On the moon, the weight of a man will be 1/6th of his weight on earth. If a man weighs 60 kg on earth, what will his weight be on the moon?
- a. 10 kg
b. 15 kg
c. 20 kg
d. 25 kg
97. A man has a certain number of apples. He gives 1/3rd of them to his son, 1/4th to his daughter, and 1/5th to his wife. He is left with 10 apples. How many apples did he have initially?
- a. 20
b. 30
c. 40
d. 50
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- a. 20
b. 30
c. 40
d. 50