



K25U 2589

Reg. No. :

Name :

V Semester B.A./B.A. Afsal-UI-Ulama/B.Sc./B.Com./B.T.T.M./B.B.A./
B.B.A.-T.T.M./B.B.A.-A.H./B.C.A./B.S.W./B.M.C. Degree (CBCSS – OBE –
Regular/Supplementary/Improvement)
Examination, November 2025
(2019 to 2023 Admissions)

V Semester Integrated M.Sc. Degree (Regular/Supplementary/
Improvement) Examination, October 2025
(2020 Admission Onwards)
Generic Elective Course
5D02 MAT : QUANTITATIVE ARITHMETIC AND REASONING

Time : 2 Hours

Max. Marks : 20

PART – A

Answer any 4 questions out of 5 questions. Each question carries 1 mark. (4×1=4)

1. Find the average of the first five prime numbers.
2. Divide Rs. 500 in the ratio of 2 : 3.
3. A shopkeeper buys an article for Rs. 100 and sells it for Rs. 125. What is the profit percentage ?
4. A and B can complete a work in 10 days and 15 days respectively. In how many days will they complete the work together ?
5. A car travels at a speed of 50 km/hr. How much distance will it cover in 3 hours ?

PART – B

Answer any 6 questions out of 10 questions. Each question carries 2 marks. (6×2=12)

6. The present ages of a father and his son are in the ratio of 5 : 2. If the father's age is 40, what is the son's age ?
7. If 3 men can do a piece of work in 8 days, how many days will it take for 4 men to do the same work ?

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8. The average of three numbers is 20. If two of the numbers are 15 and 25, find the third number.
9. By selling a product for Rs. 480, a shopkeeper makes a profit of 20%. What is the cost price of the product ?
10. The ratio of two numbers is 3 : 4. If their sum is 63, find the two numbers.
11. A train moving at a speed of 90 km/hr. crosses a pole in 5 seconds. What is the length of the train in meters ?
12. A man can row a boat at 10 km/hr. in still water. If the speed of the stream is 2km/hr., what are the upstream and downstream speeds of the boat ?
13. Ram, Shyam and Mohan can complete a work in 10, 15 and 30 days respectively. In how many days can they complete the work if they work together ?
14. If today is Monday, what will be the day of the week after 61 days ?
15. Find the angle between the hour hand and the minute hand of a clock at 6 : 00.

PART – C

Answer any 1 question out of 2 questions. Each question carries 4 marks. (1×4=4)

16. A trader mixes two varieties of sugar costing Rs. 20/kg and Rs. 25/kg in the ratio of 2 : 3. If he sells the mixture at Rs. 28/kg, what is his profit percentage ?
17. A train travels 300 km at a uniform speed. If the speed had been 5 km/hr. more, it would have taken 2 hours less for the same journey. Find the original speed of the train.