



K20U 1682

Reg. No. :

Name :



V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.T.T.M./B.C.A./B.S.W./B.A. Afsal UI Ulama/B.B.A. (AH) Degree
(CBCSS – Reg./Sup./Imp.) Examination, November 2020
(2014 Admn. Onwards)

Open Course

5D 03 MAT : QUANTITATIVE ARITHMETIC AND REASONING

Time : 2 Hours

Max. Marks : 20

SECTION – A

All the **first 4** questions are compulsory. They carry **1 mark each** :

1. Find the average of first five multiples of 3.
2. If 36 men can do a piece of work in 25 hours in how many hours will 15 men do it ?
3. A cyclist covers a distance of 750 m in 2 min 30 sec. What is the speed in km/hr of the cyclist ?
4. Find the value of $10C_2$. (4×1=4)

SECTION – B

Answer **any 6** questions from among the **5 to 13**. These questions carry **2 marks each** :

5. If $x : y = 3 : 4$, find $4x + 5y : 5x - 2y$.
6. A book was sold for Rs. 27.50 with a profit of 10%. If it were sold for Rs. 25.75, then what would have been the percentage of profit or loss ?
7. Worker A takes 8 hours to do a job. Worker B takes 10 hours to do the same job. How long should it take both A and B, working together but independently, to do the same job ?

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8. The average of four consecutive even numbers is 27. Find the largest of these numbers.
9. An aeroplane flies along the four sides of a square at the speeds of 200, 400, 600 and 800. Find the average speed of the plane around the field.
10. A train 100 m long is running at the speed of 30 km/hr. Find the time taken by it to pass a man standing near the railway line.
11. In how many ways can a cricket eleven be chosen out of a batch of 15 players ?
12. Find the angle of elevation of the sun, when the length of the shadow of a tree is $\sqrt{3}$ times the height of the tree.
13. A clock is set right at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on 4th day ? (6×2=12)

SECTION – C

Answer **any 1** question from the following questions. These questions carry **4 marks each** :

14. The average of A, B, C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43, find the weight of B.
 15. What was the day of the week on 16th July 1776 ? (1×4=4)
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