K16U 1806

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 Ul Ulama Degree
(CBCSS – 2014 Admn. – Regular) Examination, November 2016
Open Course
5D03 MAT : QUANTITATIVE ARITHMETIC AND REASONING

Time : 2 Hours   Max. Marks : 20

SECTION – A

Answer **all** the questions. **Each** question carries **one** mark.

1. If 15 toys cost Rs. 234, what do 35 toys cost ?

2. Divide Rs. 672 in the ratio 5 : 3.

3. A man buys an article for Rs. 27.50 and sells it for Rs. 28.60. Find his gain percent.

4. A cyclist covers a distance of 750 m in 2 min 30 sec. What is the speed in m/sec of the cyclist ?   (4×1=4)

SECTION – B

Answer **any 6** questions. **Each** question carries **two** marks.

5. The average of four consecutive even numbers is 27. Find the largest of these numbers.

6. The ages of two persons differ by 16 years. If 6 years ago the elder one be 3 times as old as the younger one, find their present ages.

7. A grocer purchased 80 kg of sugar at Rs. 13.50 per kg and mixed it with 120 kg sugar at Rs. 16 per kg. At what rate should he sell the mixture to gain 16% ?

8. A is twice as good a workman as B and together they finish a piece of work in 18 days. In how many days will A alone finish the work ?

P.T.O.

9. A man is standing on a railway bridge which is 180 m long. He finds that a train crosses the bridge in 20 seconds but himself in 8 seconds. Find the length of the train and its speed.

10. A man can row 18 kmph in still water. It takes him thrice as long to row up as to row down the river. Find the rate of stream.

11. 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 ?

12. In how many ways a committee of 5 members can be selected from 6 men and 5 ladies, consisting of 3 men and 2 ladies ?

13. If a man walks at the rate of 5 kmph, he misses a train by 7 minutes. However, if he walks at the rate of 6 kmph, he reaches the station 5 minutes before the arrival of the train. Find the distance covered by him to reach the station.   (6×2=12)

SECTION – C

Answer any 1 question. Each question carries four marks.

14. 2 men and 3 boys can do a piece of work in 10 days while 3 men and 2 boys can do the same work in 8 days. In how many days can 2 men and 1 boy do the work ?

15. The angle of elevation of the top of a tower at a point on the ground is 30°. On walking 24 m towards the tower, the angle of elevation becomes 60°. Find the height of the tower.   (1×4=4)