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K17U 1828

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 – Reg./Sup./Imp.)

Examination, November 2017

(2014 Admission Onwards)

Open Course

5D03MAT : QUANTITATIVE ARITHMETIC AND REASONING

Time: 2 Hours Max. Marks: 20

## SECTION-A

Answer all the questions. Each question carries one mark.

- 1. If a radio is purchased for Rs. 490 and sold for Rs. 465.50, find the loss percent.
- 2. What is the average of first 5 multiples of 3?
- 3. If  $\frac{x}{5} = \frac{y}{8}$ , then find (x + 5): (y + 8).
- Find the value of <sup>10</sup>C<sub>3</sub>.

 $(1 \times 4 = 4)$ 

## SECTION - B

Answer any 6 questions. Each question carries two marks.

- If the wages of 6 men for 15 days be Rs. 2,100, then find the wages of 9 men for 12 days.
- A mixture contains alcohol and water in the ratio 4:3. If 5 litres of water is added
  to the mixture, the ratio becomes 4:5. Find the quantity of alcohol in the given
  mixture.
- 7. Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev?



- 8. There are two sections A and B of a class, consisting of 36 and 44 students respectively. If the average weight of section A is 40 kg and that of section B is 35 kg, find the average weight of the whole class.
- Peter can cover a certain distance in 1 hr. 24 min. by covering two-third of the distance at 4 kmph and the rest at 5 kmph. Find the total distance.
- 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.
- A man can row upstream at 7 kmph and downstream at 10 kmph. Find man's rate in still water and the rate of current.
- 12. Find the angle between the hour hand and the minute hand of a clock when the time is 3.25.
- 13. In how many ways can the letters of the word 'APPLE' be arranged? (6x2=12)

## SECTION - C TEN SECTION ESSENTING ALONS IS

Answer any 1 question. Each question carries four marks.

- 14. At what percentage above the Cost Price must an article be marked so as to gain 33% after allowing a customer a discount of 5%?
- 15. A man standing on the bank of a river observes that the angle subtended by a tree on the opposite bank is 60°. When he retires 36 m from the bank, he finds the angle to be 30°. Find the breadth of the river. (1x4=4)

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