

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

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## MCADD-304

### M.C.A. (Integrated), III Semester

Examination, June 2020

### Aptitude Skills and Reasoning

Time : Three Hours

Maximum Marks : 70

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Highest common factor and lowest common multiple of two numbers are 18 and 1782 respectively, one number is 162, find the other.  
b) Monika purchased a mobile at  $\frac{9}{10}$  of its selling price and sold it to her neighbour at 8% more than its selling price. Find her gain percent.
2. a) What is the difference between LCM and HCF?  
b) What is the relation between the LCM and HCF of two given numbers?
3. a) What is the difference between simple interest and compound interest?  
b) Define arithmetic mean (average) and give one example.
4. a) Rohit starts from his house and walks 20m in the East. Then, he turns right and walks 6m. Then again he turns right and walks 12m. Now, how much distance must he walk to reach his house directly along a straight line?  
b) A merchant buys an article for Rs. 27 and sells it at a profit of 10% of the selling price. What is the selling price of the article?

MCADD-304

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[2]

5.
  - a) What is the meaning of relative speed?
  - b) Write the difference between permutation and combination.
  
6.
  - a) How many words can be formed by using all the letters of the word 'DAUGHTER' so that the vowels come together?
  - b) A train running at the speed of 6km/hr crosses a pole in 9 seconds. What is the length of train?
  
7.
  - a) Find the greatest number which on dividing 1657 and 2037 leaves remainders 6 and 5 respectively.
  - b) The average of 7 consecutive natural numbers is 20. What are all these numbers?
  
8. Write short notes (any three)
  - a) Geometric mean and Harmonic mean
  - b) LCM and HCF
  - c) Syllogism
  - d) Venn diagram

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