Roll No ....

MCADD-304

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

Examination, November 2022

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 lowers common multiple of two numbers are 18 and 1782 respectively, one number is 162, find the other.

   b) Monika purchased a mobile at $9/10^{th}$ of its selling price and sold it to her neighbour at 8% more than its selling price. Find her gain percent.

2. a) How can we find the LCM and HCF of three fractions?

   b) What is the relation between the LCM and HCF of two given numbers?

3. a) What do you understand by permutation and combination. Explain briefly.

   b) If P+Q means P is the brother of Q. P∗Q means P is the mother of Q P–Q means P is the sister of Q then what represents R is the uncle of S.

4. a) A train running at the speed of 6 km/hr crosses a pole in 9 seconds. What is the length of the train.

   b) What is the meaning of relative speed?

5. a) If 1 June 2014 was Sunday, what will be the day of the week on 20 December 2024?

    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 article.

6. a) Look at this series 53, 53, 40, 40, 27, 27,... what number should come next?

    b) In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?

7. a) How many words can be formed by using all the letters of the word 'DAUGHTER' so that are the vowels come together?

    b) Define mixture and allegation with their formulas.

8. a) Find the least number which when divided by 5,6,7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder.

    b) The average of 7 consecutive natural numbers is 20. What are all these numbers?

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