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Roll No

MCADD-304

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

Examination, June 2024

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 $\frac{9}{10}$ th of its selling price and sold it to her neighbour at 8% more than its selling price. Find her gain percent.
2. 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?
3. 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?
4. a) Two numbers are in the ratio of 15:11. If their H.C.F is 13, find the numbers?

- b) Rama spends 75% of his income. His income is increased by 20% and he increased his expenditure by 10%. Find the percentage increase in his saving?
5. a) Write the difference between simple interest and compound interest?
b) Define arithmetic mean (average) and give one example?
6. a) Explain the difference between permutation and combination?
b) How many minutes does Suresh take to cover a distance of 400m, if he runs at a speed of 20km/hr?
7. a) A Cyclist covers a distance of 750m in 2min 30sec. What is the speed in Km / hr of the Cyclist?
b) A, B and C can complete a piece of work in 24, 6 and 12 days respectively. If they Work together then in how many days they will complete the same work?
8. a) The monthly incomes of five persons are Rs. 1132, Rs.1140, Rs.1144, Rs.1136 and Rs.1148 respectively. What is their arithmetic mean?
b) A Retailer buys 40pens at the marked price of 36 pens from a wholesaler. If he sells these pens giving a discount of 1%, what is the profit percent?
