

Roll No

MCADD-304

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

Examination, June 2023

Aptitude Skills and Reasoning

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. 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?
2. a) A man bought toffees at 3 for a rupee. How many for a rupee must he sell to gain 50%?
b) What is the relation between the L.C.M and H.C.F of two given numbers?
3. a) Write the difference between simple interest and compound interest?
b) Define arithmetic mean (average) and give one example?
4. a) Worker A takes 8 hours to do a job. Worker B takes 10 hours to do the same job. How long should it takes both A and B, working together but independently, to do the same job?
b) Write a note on coding-decoding?

5. 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?
6. a) In a certain code, COMPUTER is written as PMOCRETU, how is DECIPHER written in that code?
b) One morning after sunrise, Nandita and Ravi were sitting in a lawn with their backs towards each other. Nandita's shadow fell exactly towards her left-hand side. Which direction was Ravi facing?
7. a) A train running at the speed of 56 km/hr crosses a pole in 18 seconds. What is the length of the train?
b) 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?
8. Write any two from the following
 - a) Symbol and notation
 - b) Ranking and arrangement
 - c) Venn-diagram
 - d) Cube and dice
