

Roll No

MCADD-304

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

Examination, November 2019

Aptitude Skills and Reasoning

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.

ii) All questions carry equal marks.

1. a) The average age of a class of 40 students is 20 years. If the age of teacher be included, then average increase by 5 months. Find age of teacher.
b) What will come in the place of blank in the following series
111, 107.5, 104, _____, 97, 93.5.
2. a) If in a certain language, 943 is coded as BED and 12448 is coded as SWEET how is 492311 coded in that language.
b) Helen travels 14 km westwards and then turns left and travels 6 km and further turns left and travels 26 km. How far is Helen now from starting point.
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 river 2 km long in 2 hours. What is the length of the train?
 b) Six players K, M, G, D, L and T are sitting in a circular table facing the center. M is to the left of K. D is between G and T. L is between G and M and M is diagonally opposite to D. How many people seated between L and K if counted clockwise?
5. a) If 1 June 2014 was Sunday, what will be the day of the week on 20 December 2024?
 b) What is the meaning of Relative speed?
6. a) From the given below sentences what can you conclude with the statements I and II?
 Statement
 I : All creams are cones
 II: Some cones are cakes.
 Conclusion
 I: Some creams are cakes.
 II: Some cakes are cones.
 b) Mukesh is taller than Ranjit. Gurdip is taller than Mukesh. Aditya is also not as tall as Gurdip but is taller than Mukesh. Who is the taller?
7. a) 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.
 b) Define mixture and allegation with their formulas.
8. Briefly explain :
 a) Venn-diagram
 b) Data-interpretation
 c) Syllogism
 d) Difference between simple interest and compound interest.
