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K-1053

M.A./M.Sc. (Final) Examination, 2022

MATHEMATICS

(Fundamentals of Computer Sciences and Data Structure)

[Paper : Optional-I]

Time Allowed : Three Hours

Maximum Marks : 100

Minimum Passing Marks : 33

Note : Attempt **any five** questions. **All** questions carry **equal** marks.

1. Define Computers. Explain block structure of a Computer in detail.

2. What is Number System? Describe Binary number system and their arithmetic.

3. What is Computer Memory? Explain primary memory of Computer in detail.

4. What is Operating System? Explain various types of Operating System.

5. What is Computer Network? Explain various types of Network Technology in detail.

6. Describe the concepts of Repeater Bridge and Router in detail.

7. What is meant by Algorithm? Explain Time and Space Complexity of Algorithm in detail.

8. What is Queue? Explain the operations performed on queues in detail.

9. What is Tree? Explain General Tree and Binary Tree with example.

10. What is meant by Sort? Explain Selection Sort with example.

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