

J-1053

M.A./M.Sc. (Final) Examination, 2021

MATHEMATICS

(Optional - I)

**(Fundamentals of Computer Science
and Data Structure)**

Time Allowed : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 36

Note : Attempt any five questions. All questions carry

equal marks.

Q. 1. Describe the structure and uses of computer in

detail.

Q. 2. Explain number system and their arithmetic in

brief.

Q. 3. What is meant by computer memory ? Explain

primary memory of computer in detail.

Q. 4. What is operating system ? Explain the basic

functions of an operating system.

Q. 5. What is meant by computer network ? Explain

various network technologies in detail.

Q. 6. Describe modern FTP and Electronic mail in

detail.

Q. 7. What is meant by data structure ? Explain

various data structures in brief.

(3)

Q. 8. What is meant by stack ? Explain array representation of stack with example.

Q. 9. What is meant by Binary Tree ? Explain searching and inserting operation in Binary Tree with example.

Q. 10. What is meant by sorting ? Explain selection sort with example.

