

I-1053

M.A./M.Sc. (Final) Examination, 2020

MATHEMATICS

(Optional - I)

(Fundamental of Computer Science)

Time Allowed : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 36

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

- Q. 1.** Explain different types of input devices in detail.
- Q. 2.** What do you mean by error detection and correction ? Explain in detail.
- Q. 3.** What is Operating System ? Explain its important function in detail.

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- Q. 4.** Explain different types of Computer Network in detail.
- Q. 5.** What is Stack ? Explain its various operations in detail.
- Q. 6.** What is Link List ? Explain its various operations in detail.
- Q. 7.** Explain Selection Sort.
- Q. 8.** What do you mean by Binary Tree ? Explain its types.
- Q. 9.** Write short notes :
(a) Electronic mail
(b) FTP
- Q. 10.** Convert :
(a) $(101010)_2 = (?)_{10}$

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(b) $(157)_8 = (?)_{16}$

(c) $(ABF)_{16} = (?)_{10}$

(d) $(158)_{10} = (?)_{16}$
