

AJ-1548

M.A./M.Sc. (Final) Term End Examination, 2021-22

MATHEMATICS (Paper-IV)

(Fundamental of Computer Science and Data Structure)

Time : 3 hours]

[Maximum Marks : 100

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

1. List and explain important characteristics of a Computer.
2. What is an input interface ? How it differs an output interface.
3. Write short notes on :
 - (a) Central Processing Unit
 - (b) Registers
 - (c) Volatile and Non-volatile storage
 - (d) Static and Dynamic RAM.
4. Explain the printing mechanism of laser printers.
5. Define and distinguish between application software and system software.
6. Explain Bubble sort with example.
7. What is beta version of commercial software ? What is beta testing ?
8. Write various functions performed normally by an operating system.
9. Differentiate among LAN, WAN and MAN.
10. Suppose the preorder and inorder search of a binary tree T give the following sequence of nodes.

Inorder	d	b	p	h	q	s	e	a	c	r	k	f	l
Preorder	a	b	d	e	h	p	q	s	c	f	k	r	l

Draw the binary tree T.