ED–2760

B. A./B. Sc./B. Sc. B. Ed. (Part III)
EXAMINATION, 2021
MATHEMATICS
(Optional)
Paper Third (A)
(Principles of Computer Science)

Time : Three Hours
Maximum Marks : 50

Note : Attempt any two parts from each question. All questions carry equal marks.

Unit—I

1. (a) What is main memory ? How data can be store in memory ? Explain with example.
   (b) How to program is executed ? Explain with example.
   (c) Write notes on memory mapped I/O and DMA.

Unit—II

2. (a) What is Process ? Explain about process administration.
(b) Explain the development phase of the software life cycle.

(c) Write difference between coupling and cohesion.

**Unit—III**

3. (a) Describe the Algorithm efficiency.

(b) What is recursive algorithm? Explain with example.

(c) Write an algorithm to sort any ten values.

**Unit—IV**

4. (a) What is binary tree? Describe how to implemented in an array.

(b) Explain relational database model with suitable example.

(c) Differentiate between queue and stack.

**Unit—V**

5. (a) What is production system? Explain its main components.

(b) Describe how to search tree is implemented in AI

(c) Explain turning machine and problem classification.

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