AF-3077

B.A./B.Sc. (Part - III)
Term End Examination, 2017-18

MATHEMATICS

Paper - III (A)

Principles of Computer Science

Time : Three Hours]   [*Maximum Marks* : 50

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. Explain the following :

(*a*) Storing fractions

(*b*) Communication error

OR

(2)

Explain arithmetic and logical instruction with suitable example.

Unit-II

2. What is operating system architecture ? Explain.

OR

What is software life cycle ? Explain.

Unit-III

3. What is efficiency and correctness of algorithms ? Explain.

OR

What is parallel computing ? Explain.

Unit-IV

4. Explain the following :

(*a*) Array

(*b*) Stacks

OR

What is hashed file organization ? Explain.

(3)

Unit-V

5. What is artificial intelligence ? Explain.

OR

What is turing machine ? Explain.

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