

Roll No. ....

**A-2241**

**B. A. (Part III) EXAMINATION, 2017**

**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 mark.**

**Unit—I**

1. (a) What is mass storage ? Explain in details.
- (b) What is the central processing unit ? Explain in details.
- (c) What are the essential components of a computer ? Explain their working.

**Unit—II**

2. Explain the following :
  - (a) Operating system architecture
  - (b) Handling competition among process
  - (c) Software ownership and liability

**[ 2 ]**

**Unit—III**

3. (a) Explain algorithm discovery.
- (b) Explain traditional programming concepts
- (c) Describe the term parallel computing and declarative computing.

**Unit—IV**

4. (a) Explain object oriented programming.
- (b) What is indexed file ? Explain in brief.
- (c) What do you understand by integrity constraint in database ? Explain.

**Unit—V**

5. Explain the following :
  - (a) Reasoning control system activities
  - (b) Application of artificial intelligence
  - (c) Complexity and its measures

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