

Roll No.

Printed Pages : 2

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BT-5 / D-17

**ESSENTIALS OF INFORMATION
TECHNOLOGY**

Paper-CSE-304 N

Time allowed : 3 hours]

[Maximum marks : 75

Note :- Attempt any **five** questions, selecting at least **one** from each unit. All questions carry equal marks.

Unit-I

1. (a) Contrast and compare insertion and selection sort with example. 8
- (b) Write an algorithm for binary search and explain. 7
2. Define stack and queue. Explain its characteristics and application in detail. 15

Unit-II

3. Discuss any two reference variables in detail with examples. 15
4. (a) Write short note on control structures. 9
- (b) Illustrate an example for access specifiers and instance variables. 6

Unit-III

5. What do you mean by Inheritance? Explain different types of Inheritance with example. 15
6. Discuss the following with example: 15
- (a) Constructor overloading
- (b) Abstract class

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Unit-IV

7. (a) Write short note on subqueries. 7
- (b) Explain the difference between DML and DCL statements. 8
8. Discuss various notations of ER diagram. Also explain the conversion of ER diagram into relational schema with example. 15

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