

Roll No.

Printed Pages : 2

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BT-6 / M-18

ESSENTIALS OF INFORMATION TECHNOLOGY

Paper-CSE-304 N

Time allowed : 3 hours]

[Maximum marks : 75

Note :- Students are required to attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

Unit-I

- 1. (a) Mention and explain the techniques / methods involved in problem solving. 8+7=15
(b) Write any four quality of an algorithm. How algorithms are implemented?
2. (a) Write the binary search algorithm. How the time complexity of this algorithm is calculated? 8+7=15
(b) How data is inserted and detected in a stack? Discuss different stack operations.

Unit-II

- 3. (a) Explain break and continue statements. Give a specimen example. 8+7=15
(b) Why and how type conversion is performed in any programming language?
4. Write note on the following: 5+5+5=15
(a) Access specifiers

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(2)

- (b) Command line arguments
(c) Class diagrams

Unit-III

- 5. (a) What do you mean by inheritance? Discuss different type of inheritance. 8+7=15
(b) What is constructor? How constructors are overloaded?
6. What standard industry proposed for best coding practices? How a programming code is tuned and optimized? 15

Unit-IV

- 7. (a) What is relational model? Write the different steps to translate ER diagram to relational schema. 8+7=15
(b) Why normalization is required? Discuss 3rd normal form with specimen example.
8. (a) What is SQL? Write the purpose and syntax of Alter and Update statement. 8+7=15
(b) What are the database design issues? How SQL queries can be fine-tuned?

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