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B.Sc. IT (Semester – 1st)
DEVELOPING PROGRAMMING LOGIC AND TECHNIQUES

Subject Code: BITE1-102

Paper ID: [130402]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

SECTION - A

(2 marks each)

- Q1. Write the followings:
- a. Difference between Assembly language and High-level language.
 - b. Difference between compiler and interpreter
 - c. List few characteristics of good language?
 - d. What are advantages of algorithms?
 - e. What is operator precedence?
 - f. What is the purpose of break statement?
 - g. Define 2D array?
 - h. What is difference between searching and sorting?
 - i. What is type casting?
 - j. Why is go-to statement avoided in programming?

SECTION - B

(5 marks each)

- Q2. Explain the complete process of execution of a program with the help of suitable diagram.
- Q3. What is an algorithm? How algorithm is different from pseudo code? Give example
- Q4. Writ an algorithm for multiplication of two matrices of equal size.
- Q5. Discuss the various operations that can performed on the array with the help of suitable example.
- Q6. Discuss the feature and advantages of modular programming.

SECTION - C

(10 marks each)

- Q7. Explain different types of programming languages along with the features of each type of languages.
- Q8. What is the difference between linear search and binary search. Write complexity of both the algorithms.
- Q9. Write a short note on
- a. Algorithm Complexity
 - b. Difference between nested if statement and ternary operator