

Roll No.

Total Pages : 2

31038**BT-I/D-19****PROGRAMMING FOR PROBLEM SOLVING**

Paper-ES 105A

Opt. I

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt five questions in all selecting at least one question from each unit. All questions carry equal marks.

UNIT-I

1. (a) Draw the block diagram of computer and explain it. 8
 (b) Explain hexadecimal and octal number systems with the help of suitable examples. 7
2. (a) Describe the following terms:
 (i) Assembler
 (ii) Loader 8
 (b) Write a short note on algorithm and flowchart representation. 7

UNIT-II

3. (a) Explain the different types of operators in C. 10
 (b) Discuss the precedence of operators with the help of suitable examples. 5

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4. Explain various types of control statements in C. 15

UNIT-III

5. (a) Discuss the concept of array and its initialization with the help of an example. 8
 (b) What do you understand by functions in C. 7
6. (a) Explain the term 'recursion'. 8
 (b) Write a short note on built-in functions with examples. 7

UNIT-IV

7. (a) Write a short note on declaration of pointer and operations on pointers. 10
 (b) What do you understand by dynamic memory allocation. 5
8. (a) Explain the use of union. 8
 (b) Explain the I/O operations on files. 7

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