

Roll No.

Total Pages : 2

BT-1/D-18**31038****PROGRAMMING FOR PROBLEM SOLVING**

Paper : ES-105 (A)

(Group – II)

Opt. (II)

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 describe each block. 8
- (b) Explain Binary and Octal number systems with the help of suitable examples. 7
2. (a) Describe the following terms :
 - (i) Debugger.
 - (ii) Linker. 8
- (b) Write a short note on Problem-solving techniques. 7

UNIT-II

3. (a) Explain the arithmetic, relational, logical and conditional operators in C. 10
- (b) Write a short note on Precedence of operators. 5

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

UNIT-III

5. (a) Explain the concept of Array and its initialization with the help of an example. 8
- (b) What is the benefit of using functions ? 7
6. (a) Explain the concept of Recursion. 8
- (b) Write a short note on 'Parameter passing techniques' for functions. 7

UNIT-IV

7. (a) Write a short note on Operations on pointers. 10
- (b) What do you understand by Dynamic memory allocation ? 5
8. (a) Explain the I/O operations on files. 8
- (b) Differentiate between Union and Structure. 7

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