

Roll No.

Total Pages : 03

GSE/D-24

1061

PROGRAMMING IN C

BCA-116

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. (a) Explain structure of a C Program. Give example also. 4
- (b) Write short notes on operators, operator hierarchy and associativity with suitable examples. 4
- (c) Explain the concept of function in C language with any suitable example. 4
- (d) What is the relationship between array and string ? Explain by giving suitable examples. 4

Unit I

2. Explain the concept of identifiers and keywords in C language. Discuss different data types supported in C language with suitable examples. 16

3. Explain various Input/Output functions in C language.
Give suitable examples.

Unit II

4. Explain the following concepts in C language with suitable examples : 16
- (a) Arithmetic expressions and evaluation of arithmetic expressions
 - (b) Type casting and conversion.
5. Explain various decision making and branching statements in C language. Give suitable examples. 16

Unit III

6. Explain various typing of looping control statements in C language along with their purpose, syntax and examples. 16
7. Explain the following concepts in C language with suitable examples : 16
- (a) Passing parameters (call by value and call by reference)
 - (b) Recursion.

Unit IV

8. Explain auto, register and static storage classes in C language along with their purpose, syntax and examples. 16

9. What is the significance of arrays ? Explain various types of arrays. Elaborate on the following concepts w.r.t arrays:

16

- (a) Initialization and processing of an array
- (b) Passing arrays to function.

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