

Roll No. ....

Total Pages : 3

MCA/D-19

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**PROGRAMMING IN C**

Paper-MCA-14-11

Time Allowed : 3 Hours]

[Maximum Marks : 80

**Note :** Attempt five questions in all, selecting at least one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Differentiate between the following :

- (a) Prefix and Postfix ++ operators.
- (b) Break and Continue statements.
- (c) Write and append mode to open a file.
- (d) Relational and Logical operators.
- (e) Unary, binary and ternary operators.

**UNIT-I**

2. (a) What do you understand by Associativity of Operators ? Discuss the operators in C language having right to left Associativity.
- (b) What is Bitwise Operators ? What is the difference between <<and>> operators ? Explain using suitable examples.

3. (a) What do you understand by Storage class ? Differentiate between Automatic, Static and Register storage class.
- (b) What are the different data type available in C language ? Differentiate between Signed and unsigned character data types using suitable example.

**UNIT-II**

4. (a) What is a function ? How the parameters are passed to functions in C language ? Discuss.
- (b) What is Recursion ? Write a recursive function to compute the factorial of a given integer.
5. (a) What do you understand by Control Statements ? What is the difference between Entry controlled and Exit controlled loops ? Explain using suitable example from C language.
- (b) Explain the switch statement of C languages. Write a program in C reading an integer in the range 1 to 12 and print the corresponding month of the year.

**UNIT-III**

6. (a) What is a Pointer ? Discuss the operations that can be performed on Pointers.
- (b) What is Array ? How are they declared and initialized in C language ? Discuss.

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7. Write a program in C to arrange a list of names in ascending order using an array of pointers to names.

#### UNIT-IV

8. What is a Union Data structure ? How is it different from struct ? What is the use of Union ? Discuss.
9. Write a program in C to compute the frequency of vowels and consonants in a file.

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