

2-12-2019

Roll No.

Total Pages : 3

MCA/D-19

10010

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.

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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.

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.

