[Total No. of Questions - 9] [Total No. of Printed Pages - 2] (2125)

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MCA 1st Semester Examination Programming Methodologies C & C++ (NS) MCA-101

Time: 3 Hours Max. Marks: 60

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt five questions in all, select one question from each sections A, B, C & D. Section E is compulsory.

SECTION - A

- 1. What do you mean by algorithm? Write an algorithm to find the power of a number. Also give its advantages. (12)
- 2. Explain Various operators supported in C. (12)

SECTION - B

3. Write the program to find the grade of the student with following conditions:

Marks	Grade	
80-100	A+	
70-79	Α	
60-69	B+	
50-59	В	
40-49	С	
0-39	F	(12)

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4. What do you mean by function? Write advantages of using functions. Differentiate between call by value and call by reference using suitable examples. (12)

SECTION - C

- 5. What do you mean by array? How we can declare, initialize and access members of 2d-array. Explain using an example. Also explain how memory is allocated to 2d-array? (12)
- 6. Write a program that compares two strings without using library functions. (12)

SECTION - D

- 7. Explain the concept of array of objects in structure using suitable examples. (12)
- 8. Write a program to copy the content of data.txt file to copy.txt file (12)

SECTION - E

- Define the following.
 - (a) Pseudo code.
 - (b) Types of errors.
 - (c) constant.
 - (d) if else statement.
 - (e) pointer.
 - (f) linked list.
 - (g) malloc().
 - (h) do while.
 - (i) keywords.
 - (j) fscanf().
 - (k) typedef.
 - I) file opening modes. (1×12=12)