MCA-03

June - Examination 2016

MCA Ist Year Examination

Computer Programming Using C

Paper - MCA-03

Time : 3 Hours] **[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $8 \times 2 = 16$

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

1) (i) What is structured programming?

(ii) What are identifiers?

(iii) Define operator.

(iv) What is the purpose of the putchar() function?

(v) What do you mean by the scope of a variable?

(vi) Define function.

(vii) Define array.

(viii) What is a structure in C?

Section - B

$4 \times 8 = 32$

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

2) What are the built in data types in C? Explain.

3) Explain the types of operators that are included in C, with suitable example.

4) Write a C program which accepts a number and prints the sum of digits of this number.

5) Explain the types of storage class with suitable example.

6) What is recursion? Explain it with example.

7) What is meant by union? Differentiate between structure and union.

8) Write a program to copy a file to another file.

9) Define pointer. Explain dynamic memory allocation.

Section - C

$2 \times 16 = 32$

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 16 marks.

10) Define program. Describe the various stages of program development.

11) Explain the types of Iterative statement that are included in C, with suitable example.

12) Explain pass by value and pass by reference parameter passing method with suitable example.

13) Write a program to multiply two matrices and store the results in the third matrix.