MCA (SEM-I)
Programming with C
(OCT-16)

QP CODE : 510000

[Total Marks : 100]

(3 Hours)

N.B. : 1. Question No.1 is **compulsory**

2. Attempt any **four** from the remaining **six** questions.

3. Give **Programming examples** and **syntax** where **required**.

1. (a) Explain enum with suitable example. (10)

   (b) What do you mean by Recursion? Write a program to find n! (10) using recursive function.

2. (a) Write any five string functions with suitable example for each. (10)
   (b) Write a C program for matrix multiplication using function. (10)

3. (a) Differentiate the following: (10)
      i. Structure and Union
      ii. Call by value and Call by reference.
   (b) Write a C program which accepts two file names as command (10) line parameters and append the second file to the first.

4. (a) Write a complete C program to simulate a digital clock. (10)
   (b) What are the storage classes? Explain with suitable example. (10)

5. (a) Write a program in C for returning starting location of a substring (10) using pointers.
   (b) Write a program to generate pattern: (10)
      1
      121
      12321
      1234321

6. (a) Write a C program to reverse the string. (10)
   (b) List and explain operators in C. Also write operator precedence. (10)

7. Write Short Notes on _**any four**_ :- (20)
      a) Multidimensional array
      b) Pointers
      c) Stream file
      d) Preprocessors in C
      e) Escape Sequence