

Paper / Subject Code: 55801 / Programming with C

(3 Hours)

Total Marks: 100

- N.B.** (1) Question No. 1 is compulsory.  
(2) Attempt any four from the remaining six questions.  
(3) Figures to the right indicate full marks.

- Q.1 (a) What is recursion? Write a C program to Calculate sum of digits of an integer using a recursion. [10]  
[10]  
(b) What is Preprocessor & Assembler? Explain in detail.
- Q.2 (a) Explain what is pointer? Explain with suitable example. [10]  
(b) What is malloc () & calloc ()? Explain Difference between malloc () & calloc () with example. [10]
- Q.3 (a) What are static variable? Compare with standard local variable [10]  
(b) What is an operator? Explain Different Types of operators used in C. [10]
- Q.4 (a) Explain all in-built string handling functions with example. [10]  
(b) Difference between Pass by Value and Pass by reference. [10]
- Q.5 (a) What is Storage Class? Explain Types of Storage Class. [10]  
(b) Explain Function with argument & no return value with one example. [10]
- Q6 (a) Write a C program to copy content of one data file into another. [10]  
(b) What is Array? Explain in detail with example [10]
- Q.7 (a) Write short Notes on: (Any four) [20]  
a) Difference between strings and character arrays  
b) Macro  
c) Null Pointer  
d) Properties of Algorithm  
e) Compare While & do While loop