

Q.P. Code :22067

[Time: Three Hours]

[Marks:100]

Please check whether you have got the right question paper.

- N.B:
1. Question No.1 is Compulsory.
 2. Answer any 4 questions from question no.2 to 7
 3. All questions carry equal marks.

- Q.1** a) Give a brief note about the elements in a pointer data type. What are the advantages and disadvantages of pointers **10**
- b) What is a preprocessor, what are the advantage of preprocessor? **10**
- Q.2** a) What is malloc () & calloc () ? Explain difference between malloc () & calloc () with example. **10**
- b) List any 3 file handling functions. Explain in detail. **10**
- Q.3** a) Write a program using recursive function to print sum of digits of a given number. **10**
- b) What is mean by user-defined data type? Give a C program example which uses user defined data type. **10**
- Q.4** a) What is the purpose of static, auto and register variables in C? **10**
- b) Explain what is pointer? Explain with suitable example. **10**
- Q.5** a) What are different parameter passing mechanisms in C? Give examples. **10**
- b) What are static variable? Compare with standard local variable. **10**
- Q.6** a) Write a program to pass an array to a function which returns the sum of the elements of the array. **10**
- b) What is meant by Macros? List constructs in C for preprocessing **10**
- Q.7** Write Short note on **any Four:** **20**
- a) Difference between Call by reference & Call by Value
 - b) Difference between union & Structure
 - c) Difference between Continue & Break
 - d) Difference between Buffered and unbuffered files
 - e) Difference between typedef and typecast
