

**TEEGALA KRISHNA REDDY ENGINEERING COLLEGE**

**(UGC – AUTONOMOUS)**

**B TECH II Semester Examinations, September 2021**

**(Common to EEE, CSE & IT)**

**Programming for Problem solving**

**Time : 3 Hours**

**Max. Marks : 75**

**Answer any Five questions  
All questions carry equal marks**

1. a) Explain how to create , compile and execute a c program.  
b) List types of operators in C with an example. (7+8)
2. a) List out string handling functions and explain in brief.  
b) Write a C program to check whether the given string is palindrome or not. (8+7)
3. a) What is a File pointer? Explain the steps for sequential file operations.  
b) Write a C program to copy the contents of one file to another file. (8+7)
4. a) Explain parameter passing mechanism in C programming .  
b) Write a c programming to explain the concept of “call by reference”? (7+8)
5. a) Differentiate between selection sort and bubble sort ?  
b) Sort elements using bubble sort {35, 18, 7, 12, 5, 23, 16}. (7+8)
6. a) What are arithmetic operators that are permitted in pointers ?  
b) Write a function to reverse the string as the argument that cannot be altered without using string function. (7+8)
7. a) Differentiate between Static and Dynamic memory allocation in C with example ?  
b) Write a macro to find greatest of 2 values. (7+8)
8. a) Describe file handling in C.  
b) Write the syntax for opening and closing a file. (7+8)