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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech I Year I Semester Supplementary Examinations August-2022****COMPUTER PROGRAMMING**

(Common to All)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)**UNIT-I****1** Write an algorithm, flowchart and C program to find the sum of numbers from 1 to 'n' **12M****OR****2 a** What is constant? Explain different constants in C. **6M****b** Write an algorithm and flowchart to generate Fibonacci series of numbers up to 'n'. **6M****UNIT-II****3 a** List and explain loop control (or) iteration statements in C. **8M****b** Write a program to check whether the given number is "Even" or "Odd". **4M****OR****4 a** Write a program to generate Pascal triangle. **6M****b** Write a program to check whether the given number is palindrome or not. **6M****UNIT-III****5 a** Illustrate multidimensional arrays with example program. **6M****b** Write a C program to multiply two matrices of different order. **6M****OR****6 a** Discuss about arithmetic operations on characters. **6M****b** Write a C program to read a set of strings and sort them in alphabetical order. **6M****UNIT-IV****7 a** How to access a structure member using pointers, explain with example. **6M****b** Write a C program to illustrate the use of indirection operator to access the value pointed by a pointer. **6M****OR****8** Explain the following C dynamic memory allocation functions with syntax and example : i). malloc() ii). calloc() iii). realloc() iv). free() **12M****UNIT-V****9** Explain the following file handling functions: **12M**

i). fseek() ii). ftell() iii). rewind() iv). feof()

**OR****10 a** How data elements are stored under unions, explain with example? **6M****b** Write a C program to illustrate the concept of structure within structure. **6M**

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