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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech I Year I Semester Supplementary Examinations June 2019****COMPUTER PROGRAMMING**

(Common to All)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)**UNIT-I****1** Apply software development method on finding the roots of a quadratic equation. 12M**OR****2 a** Write the structure of C program and explain. 6 M**b** What is flowchart? Explain different symbols used for flowchart. 6 M**UNIT-II****3** List and explain loop control (or) iteration statements in C. 12M**OR****4 a** Write a program to check whether the given number is Armstrong or not. 6 M**b** write a program to find sum of the series  $1+2^2+3^2+\dots+n^2$  6 M**UNIT-III****5 a** Define an array. How to initialize one-dimensional array? Explain with suitable examples. 6 M**b** Write a program to find the average marks obtained by a class of 50 students in a test. 6 M**OR****6** Explain the following string handling functions with example:  
a. strcpy() b. strcmp() c. strcat() d. strlen() e. strncat() 12M**UNIT-IV****7 a** What is recursion? What are the advantages and Disadvantages of recursion? 6 M**b** Discuss about different parameter passing techniques. 6 M**OR****8** What is a pointer? What are the features of pointers? Write a C program to print address of a Variable. 12M**UNIT-V****9** Explain the following file handling functions:  
a. fseek() b. ftell() c. rewind() d. feof() 12M**OR****10 a** Write suitable example to illustrate the concept of structure within structure. 6 M**b** Write a C program to read and display student details using structure. 6 M

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