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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
 (AUTONOMOUS)  
**B.Tech I Year I Semester (R16) Supplementary Examinations June 2017**  
**COMPUTER PROGRAMMING**  
 (Common to CE, EEE, ME, ECE & CSE)  
 (For Students admitted in 2016 only)

Time: 3 hours

Max. Marks:60

(Answer all Five Units 5 X 12 = 60 Marks)

**UNIT-I**

- 1 a. Define Flowchart? Draw the flow chart for generating n elements in Fibonacci series 6M  
 b. List the C data types and explain about Enumerated data type with example. 6M

**OR**

- 2 a. Define Constant? List and explain various constants used in C language. 6M  
 b. What is Escape sequences and Explain the importance of various characters in C. 6M

**UNIT-II**

- 3 a. Describe the syntax of “for” loop and explain the loop implementation factors with example. 8M  
 b. Write a C program to generate pascal triangle. 4M

**OR**

- 4 a. Explain the goto , continue and break statements with example. 8M  
 b. Write a C program to check whether the given number Armstrong number or not. 4M

**UNIT-III**

- 5 a. Define an 2D array? Write a C program to perform matrix transposition. 6M  
 b. Write a C program to sort the given array elements in Descending order. 6M

**OR**

- 6 a. Define string? Explain the syntaxes of various string handling functions. 6M  
 b. Write C program to display the string in reverse order without using string handling functions. 6M

**UNIT-IV**

- 7 a. Define Functions and explain about the categories of Functions 6M  
 b. Write a C program to simulate call by reference . 6M

**OR**

- 8 a. Describe Various Storage classes with example. 6M  
 b. Write a C program to simulate pointers and arrays with own example, 6M

**UNIT-V**

- 9 a. Define Structure? Write a C Program to access Structure elements using pointers. 4M  
 b. Compare and contrast array of structures and arrays within structures with example 8M

**OR**

- 10 a. Write a C Program to copy the contents from file1.txt to file2.txt. 6M  
 b. Describe various file handling functions with syntax and examples. 6M

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