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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech I Year I Semester (R16) Regular Examinations December 2016****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**

- Q1** a. Define an Algorithm? Write an algorithm for finding Armstrong number. 6M
 b. Explain the following operators with example
 (i) Relational Operators (ii) Logical Operators (iii) Bitwise operators 6M

OR

- Q.2** a. Write an algorithm and flowchart to find the given number is prime or not. 8M
 b. Compare and contrast increment and decrement operators with example 4M

UNIT-II

- Q.3** a. Describe syntax of various if-Else statements. 6M
 b. Write a C program to simulate switch case statement with your own example. 6M

OR

- Q.4** a. Compare and contrast entry control and exit control loops in C. 6M
 b. Write a C program to display the prime numbers upto the given n value. 6M

UNIT-III

- Q.5** a. Define an array. How to initialize one-dimensional array? Explain with suitable examples. 6M
 b. Write a C program to display only odd numbers from given array of elements. 6M

OR

- Q.6** a. Explain arrays as functional arguments with an example. 6M
 b. Write a C program to read a set of strings and display them based on the increasing order of number of alphabets in the strings 6M

UNIT-IV

- Q.7** a. Discuss about the different categories of functions. 6M
 b. Write a C program using function to sort the given numbers in ascending order. 6M

OR

- Q.8** a. Explain the dynamic memory allocation functions with syntax and example:
 (i) malloc() (ii) calloc() (iii) free() 6M
 b. Write a C program to implement matrix multiplication using pointers 6M

UNIT-V

- Q.9** a. Compare and contrast structure and Union variables with examples. 4M
b. Write a C program that simulates structures within structures with own example. 8M

OR

- Q.10** a. Write a C program to accept n numbers as the input and store odd numbers in odd.txt and even numbers even.txt. 6M
b. Explain about (i) #include (ii) # define with an example. 6M

***** END *****