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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.TECH I Year II Semester (R16) Supplementary Examinations Dec 2017
DATA STRUCTURES THROUGH C
(CSE)**

Time: 3 hours

Max. Marks:60

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

UNIT-I

- 1 a Explain about the methods to represent two-dimensional arrays? 6M
- b Discuss about Pointer Array? 6M

OR

- 2 Explain in detail about deletion operation on Double linked list with suitable 12M

UNIT-II

- 3 a Write short note on implementation of Round Robin scheduling using Queues? 6M
- b Write short on representation of Queue using Arrays? 6M

OR

- 4 Explain the algorithm to implement Towers of Hanoi problem with example? 12M

UNIT-III

- 5 What is Binary Tree? Explain insertion operation on Binary tree with an example? 12M

OR

- 6 What is the advantage of Floyd's algorithm over Warshall's algorithm to find Shortest Path? Explain with a suitable example? 12M

UNIT-IV

- 7 Explain the Binary Insertion sort with algorithm and suitable example? 12M

OR

- 8 Discuss algorithm and example for Quick sort using Partition method? 12M

UNIT-V

- 9 Explain and analyze the Fibonacci Search algorithm with a suitable example? 12M

OR

- 10 a What is Hash Table? Explain any two hashing Functions ? 6M
- b Explain Closed Hashing Collision resolution Technique? 6M

*** END ***