

Total No. of Questions : 8]

SEAT No. :

P-9671

[Total No. of Pages : 2

[6179]-241

**S.E. (Computer Engineering A.I & D.S.)
FUNDAMENTALS OF DATA STRUCTURES
(2019 Pattern) (Semester - III) (210242)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer to the questions (Q.No.1 or Q.No.2, Q.No.3 or Q.No.4, Q.No.5 or Q.No.6, Q.No.7 or Q.No.8).
- 2) Assume suitable data, if necessary.
- 3) Draw neat labelled diagram wherever necessary.
- 4) Figures to the right indicate full marks.

Q1) a) Sort the following numbers step by step using insertion sort : [9]
55, 85, 45, 11, 34, 5, 89, 99, 67

Comment on time complexity of Insertion sort

b) Explain in brief any three searching techniques. What is the time complexity of these techniques? [9]

OR

Q2) a) Explain Fibonacci Search algorithm with suitable example. What is its time complexity? [9]

b) Given numbers 29, 57, 47, 39, 36, 20, 55, 28, 31, 39. Sort stepwise using radix sort. When it is appropriate to use radix sort? Write time Complexity. [9]

Q3) a) Write pseudo code for following function using Singly Linked List of students (roll_number and name stored in every node) [9]

i) Search given roll no and delete that record. Draw diagram of operation.

ii) Add given number after specified number in the list. Draw diagram of operation.

b) Write and explain use of Generalized linked list for representation of multivariable polynomial with suitable example. Explain node structure. [9]

P.T.O.

Data Structures Exam Solutions

Shasha Hu



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