FirstRanker.com
Firstranker's choice
www.FirstRanker.com www.FirstRanker.com

Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ECE)/(ETE) (2011 Onwards)

B.Tech.(Electronics Engg.) (2012 Onwards)

(Sem.–5)

DATA STRUCTURES

Subject Code : BTCS-304

M.Code : 70544

Time : 3 Hrs. Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1 Answer briefly :

a) Dangling pointers

b) Queue

c) Complexity of Linear Search

d) Heaps

e) Out degree in graphs

f) Linked Lists

g) Sparse matrix

h) Rehashing

i) Big 'O' notation

j) AVL Trees

www.FirstRanker.com

www.FirstRanker.com

FirstRanker.com
Firstranker's choice
www.FirstRanker.com www.FirstRanker.com

SECTION-B

Q2. Write a note on Arrays.

Q3. Write an algorithm to insert in an item in the beginning on circular queue.

Q4. Differentiate between BFS and DFS in graphs.

Q5. Discuss various operations on queue.

Q6. Write an algorithm for binary search.

SECTION-C

Q7. Create a BST of 15 nodes. Write all 3 traversals.

Q8. What do you mean by infix, prefix and postfix expressions? How to evaluate postfix?

Q9. Discuss with example procedure of radix sort.

www.FirstRanker.com

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

www.FirstRanker.com