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Class - BCA-4thSem. Subject - Data Structure

Time Allowed : 3 Hours Maximum Marks : 75
Note:- Attempt any 5 out of 8 questions.
1. (a) Diecuss Time space Trade off. 7
(b) What do you mean by complexity of an algorithm?
Explain with an example.
2. Explain Quickson Algorithm in detail. Also write a
suitable example.
3. (a) Differentiate between Stack & Queue. 7
(b) Explain Basic operations performed in data
structure.
4. What is Linked List? Write the algorithm for Insertion
of a node in the linked list.
5. (a) What are PUSH & POP operations in Stack? 7
(b) What is String Processing in data structure 8
6. Explain :
(a) What is Multidimensional Array?
(b) Doubly Header linked list.
(c) Circular Header linked list. $(5 \times 3 = 15)$
7. Explain Binary Search Algorithm with suitable

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example with its complexity.

www.a2zpapers.com 8. Explain:

- - (a) Recursion with suitable example
 - (b) Avail list
- A La Deque with example $(5 \times 3 = 15)$

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