

KANDI RAJ COLLEGE
BSC SEM V [GEN]
(COMPUTER SCIENCE)
INTERNAL EXAM [UG-G-DSE-L-501A]
ANALYSIS OF ALGORITHMS AND DATA STRUCTURES [DSE-1A]
[NEW SYLLABUS]

TIME -30 minutes

ANSWER ANY TWO QUESTIONS:

(2X5=10)

1. What is an algorithm? Define Data Structure. Write down the major operations of Data Structure.
2. Explain Bubble sort by means of an example. Write down the algorithm of Bubble sort.
3. What is Linked List? Write down the algorithm for traversing a linked list.
4. Write short notes on Binary Tree.
5. Write down the Procedure for PUSH and POP operations.

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DATABASE MANAGEMENT SYSTEMS [DSE-1A]
[OLD SYLLABUS]

TIME -30 minutes

ANSWER ANY TWO QUESTIONS:

(2X5=10)

1. Explain 3-Schema architecture in DBMS with proper diagram.
 2. Briefly describe E-R Model with an example?
 3. What do you mean by Data Independence? Explain Logical & Physical Data Independence.
 4. What is Relational Algebra ? Write short notes on Cartesian Product.
 5. What is SQL? Write down the characteristics of SQL.
 6. Write short notes of Functional Dependency.
 7. What do you mean by Normalization. Explain 1NF,2NF and 3NF in details.
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