DATA STRUCTURES & ALGORITHMS BASED COMPUTER MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Q1. When converting binary tree into extended binary tree, all the original nodes in binary tree are

a) internal nodes on extended tree

b) external nodes on extended tree

c) vanished on extended tree

d) None of the above

Q2. Which of the following is not a limitation of binary search algorithm ?

a) binary search algorithm is not efficient when the data elements are more than 1000.

b) must use a sorted array

c) requirement of sorted array is expensive when a lot of insertion and deletions are needed

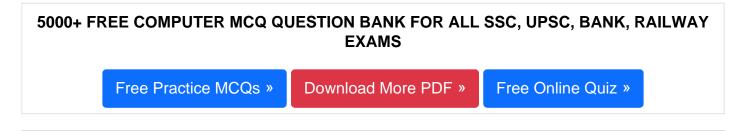d) there must be a mechanism to access middle element directly

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Q3. This data structure allows deletions at both ends of the list but insertion at only one end.

a) Input-restricted deque

b) Output-restricted deque

c) Priority queues

d) None of the above

Q4. Each array declaration need not give, implicitly or explicitly, the information about the

a) name of array

b) data type of array

c) first data from the set to be stored

d) index set of the array

Q5. The operation of processing each element in the list is known as

a) Merging

b) Inserting

c) Traversal

d) All the above

Q6. The complexity of Binary search algorithm is

a) O(n)

b) O(log)

c) O(n log n)

d) None of the above

Q7. The post order traversal of a binary tree is DEBFCA. Find out the pre order traversal

a) ABFCDE

b) ADBFEC

c) ABDECF

d) None of the above

Q8. The complexity of merge sort algorithm is

a) O(n)

b) O(log n)

c) O(n log n)

d) None of these

Q9. The depth of a complete binary tree is given by

a) $D_n = n \log_2 n$

b) $Dn = {}_n \log_2 n+1$

c) $D_n = \log_2 n$

d) $D_n = \log_2 n+1$

Q10. In a graph if e=(u, v) means

a) e begins at u and ends at v

b) u is processor and v is successor

c) both B and C are true

d) none is true

Q11. A variable P is called pointer if

a) P points to the address of first element in DATA

b) P can store only memory addresses

c) P contain the DATA and the address of DATA

d) P contains the address of an element in DATA.

Q12. When new data are to be inserted into a data structure, but there is no available space; this situation is usually called

a) Housefull

b) Saturated

c) Underflow

d) Overflow

Q13. The following data structure store the homogeneous data elements

a) Arrays

b) Records

c) Pointers

d) None of the above

Q14. The following name does not relate to stacks

a) FIFO lists

b) LIFO list

c) Piles

d) Push-down lists

Q15. The space factor when determining the efficiency of algorithm is measured by

a) Counting the maximum memory needed by the algorithm

b) Counting the minimum memory needed by the algorithm

c) Counting the average memory needed by the algorithm

d) Counting the maximum disk space needed by the algorithm

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (a)

Q3. Answer: (a)

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DATA MINING AND DATA WARE HOUSE   ELECTRONICS DATA PROCESSING

Q4. Answer: (c)

Q5. Answer: (c)

Q6. Answer: (b)

Q7. Answer: (c)

Q8. Answer: (c)

Q9. Answer: (d)

Q10. Answer: (c)

Q11. Answer: (d)

Q12. Answer: (d)

Q13. Answer: (b)

Q14. Answer: (a)

Q15. Answer: (a)

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