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

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Created By Careericons Team

Q1. Which of the following is not the required condition for binary search algorithm

a) there must be mechanism to delete and/ or insert elements in list

b) the list must be sorted

c) there should be the direct access to the middle element in any sublist

d) none of the above

Q2. The memory address of fifth element of an array can be calculated by the formula

a) LOC(Array[5])=Base(Array[5])+(5-lower boun(D), where w is the number of words per memory cell for the array

b) LOC(Array[5])=Base(Array[4])+(5-Upper boun(D), where w is the number of words per memory cell for the array

c) LOC(Array[5]=Base(Array)+w(5-lower boun(D), where w is the number of words per memory cell for the array

d) None of the above

Q3. When representing any algebraic expression E the following uses only binary operations in a 2-tree

a) the variable in E will appear as external nodes and operations in internal nodes

b) the operations in E will appear as external nodes and variables in internal nodes

c) the variables and operations in E will appear only in internal nodes

d) None of the above

Q4. If every node u in G is adjacent to every other node v in G, A graph is said to be

a) Isolated

b) Complete

c) Finite

d) Strongly connected

Q5. Two dimensional arrays are also called

a) tables arrays

b) matrix arrays

c) both of the above

d) none of the above

Q6. The indirect change of the values of a variable in one module by another module is called

a) internal change

b) inter-module change

c) side effect

d) all the above

Q7. Linked lists are best suited for

a) relatively permanent collections of data

b) the size of the structure and the data in the structure are constantly changing

c) both of above situation

d) none of above situation

Q8. In a Heap tree values in a node is greater than

a) every value in left sub tree and smaller than right sub tree

b) every value in children of it

c) Both of above conditions are true

d) None of above conditions are true

Q9. A connected graph T without any cycles is called

a) tree graph

b) free tree

c) tree

d) All of the above

Q10. Finding the location of the element with a given value is called

a) Traversal

b) Search

c) Sort

d) All of the above

Q11. In a binary tree, certain null entries are replaced by special pointers which point to nodes higher in tree for efficiency. These special pointers are called

a) Leaf

b) Branch

c) Path

d) Thread

Q12. Which of the following statement is false ?

a) Arrays are dense lists and static data structure

b) Data elements in linked list need not be stored in adjacent space in memory

c) Pointers store the next data element of a list

d) Linked lists are collection of the nodes that contain information part and next pointer

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Q13. The following data structure is non-linear type

a) Strings

b) Lists

c) Stacks

d) None of the above

Q14. The elements of an array are stored successively in memory cells because

a) by this way computer can keep track only the address of the first element and the addresses of other elements can be calculated

b) the architecture of computer memory does not allow arrays to store other than serially

c) A and B both false

d) A and B both true

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

a) Counting the number of key operations

b) Counting the number of statements

c) Counting the kilobytes of algorithm

d) None of the above

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (c)

Q3. Answer: (a)

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Q4. Answer: (b)

Q5. Answer: (c)

Q6. Answer: (c)

Q7. Answer: (b)

Q8. Answer: (b)

Q9. Answer: (d)

Q10. Answer: (b)

Q11. Answer: (d)

Q12. Answer: (c)

Q13. Answer: (d)

Q14. Answer: (a)

Q15. Answer: (a)

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