DATA STRUCTURE MULTIPLE CHOICE QUESTIONS AND ANSWERS

1. What is a data structure?
a) A programmming language
b) A collection of algorithms
c) A way to store and organize data
d) A type of computer hardware
View Answer
Answer: c
Explanation: A data structure is a way to store and organize data efficiently, enhancing access and manipulation, unlike programming languages, algorithms, or computer hardware.

2. What are the disadvantages of arrays?
a) Index value of an array can be negative
b) Elements are sequentially accessed
c) Data structure like queue or stack cannot be implemented
d) There are chances of wastage of memory space if elements inserted in an array are lesser than the allocated size
View Answer
Answer: d
Explanation: Arrays are of fixed size. If we insert elements less than the allocated size, unoccupied positions can't be used again. Wastage will occur in memory.

3. Which data structure is used for implementing recursion?
a) Stack
b) Queue
c) List
d) Array
View Answer
Answer: a
Explanation: Stacks are used for the implementation of Recursion.

4. The data structure required to check whether an expression contains a balanced parenthesis is?
a) Queue
b) Stack
c) Tree
d) Array
View Answer
Answer: b
Explanation: The stack is a simple data structure in which elements are added and removed based on the LIFO principle. Open parenthesis is pushed into the stack and a closed parenthesis pops out elements till the top element of the stack is its corresponding open parenthesis. If the stack is empty, parenthesis is balanced otherwise it is unbalanced.

5. Which of the following is not the application of stack?
a) Data Transfer between two asynchronous process
b) Compiler Syntax Analyzer
c) Tracking of local variables at run time
d) A parentheses balancing program
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and searching algorithms Includes programming tips to highlight important concepts and help readers avoid common programming errors Presents each concept of data structure with a different approach and implements the same using Python programming Offers rich chapter end pedagogy including objective type questions with answers review questions and programming exercises to facilitate review Covers fundamentals of Python up to object oriented concepts including regular expression It is primarily written for senior undergraduate graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering and information technology

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