Quizzes: Chapter 11

1. A data structure can be _____.
   a. only an array
   b. only a record
   c. only a linked list
   d. an array, a record, or a linked list
   Correct Answer: (d)

2. An array that consists of just rows and columns is a _____ array.
   a. one-dimensional
   b. two-dimensional
   c. three-dimensional
   d. multidimensional
   Correct Answer: (b)

3. Each element in a record is called _____.
   a. a variable
   b. an index
   c. a field
   d. a node
   Correct Answer: (c)

4. All the members of a record must be _____.
   a. the same type
   b. related types
   c. integer type
   d. character type
   Correct Answer: (b)

5. _____ is an ordered collection of data in which each element contains the location of the next element.
   a. An array
   b. A record
   c. A linked list
   d. A file
   Correct Answer: (c)

6. In a linked list, each element contains _____.
   a. only data
   b. only a link
   c. neither data nor a link
   d. data and a link
   Correct Answer: (d)

7. The _____ is a pointer that identifies the next element in the linked list.
   a. link
   b. node
   c. array
   d. data
   Correct Answer: (a)

8. Given a linked list called *children,* the pointer variable *children* identifies _____ element of the linked list.
   a. the first
   b. the second
   c. the last
   d. any
   Correct Answer: (a)

9. An empty linked list consists of _____.
   a. a node
   b. two nodes
   c. data and a link
   d. a null head pointer

Correct Answer: (d)

10. To traverse a list, you need a _____ pointer.
   a. null
   b. walking
   c. beginning
   d. insertion
   Correct Answer: (b)