

DATASTRUCTURES

UNIT1 AND UNIT2

1).An ____is a sequence of clear and precise step-by-step instructions for solving a problem in a finite amount of time

Algorithm

Flowchart

Dataflow

Datagram

2)Data is stored in computer as a sequence of

Binary digits

Decimal digits

Octal digits

Hexadecimal digits

3)A _____is used to insert an item into the stack.

Peek

Push

Pop

None of these

4)_____function is used to return the number of elements in the stack

Set

Add

Length

Iterator

5)_____is used to store key/value pairs.

Dictionary

Array

List

Linked list

6)LIFO stands for

Latest in first out

Last in first Out

Late in first out

Last into first out

7)FIFO Stands for

final in first out

first in final out

First in first out

8) If the operator is placed in front of operand it is called

Prefix

Postfix

Infix

Middle fix

9) Array comes under_____

Primitive data type

Non primitive data type

Datastructures

All of these

10) If the operator is placed after the operand it is called

Prefix

Postfix

Infix

None of these

11) _____ is a process of arranging or ordering a collection of items in ascending or descending order.

Search

Sorting

Hashing

None of these

12) Swapping is used in _____

Sequential Search

Binary sort

Bubble sort

None of these

13) Array elements start with an index _____

One

Two

Three

Zero

14) Integer is an example for _____

Primitive datatype

Non Primitive datatype

Linear Datatype

Non Lineardatatype

15) Queue uses front and _____

pop

Rear

Push

None of these

16) In stack items are inserted from

Top

Bottom

Left

Right

17) the start and end at the same place is known as

Circular queue

Dequeue

Priority queue

None of these

18) Where is linear searching used?

When the list has only a few elements

When performing a single search in an unordered list

Used all the time

When the list has only a few elements and When performing a single search in an unordered list

19) the process of inserting an element in the queue

Enqueue

Dequeue

Push

Pop

20) data structures is used to store

ordered data

unordered data

sorted data

unsorted data

21) _____ sort splits the array into two

Merge sort

Bubble sort

Insertion sort

Selection sort

22) Which of the following traversal outputs the data in sorted order in a BST?

Preorder

Inorder

Postorder

Levelorder

23) By using _____ we can swap the numbers.

Insertion sort

Bubble sort

Selection sort

Quick sort

24) The process of visiting each and every element in data structure is called

Traversal

Deletion

Insertion

Sorting

25) _____ is simply numbered instructions to perform task

Numeric code

Hexadecimal code

Pseudo code

None of these

26) if the item exceed the stack size the process is known as

Overflow

Underflow

Size mismatch

None of these

27) if top is less than zero then the stack is

Zero

Empty

Full

Nonzero

28) in a binary tree the left side is _____ than the root node and the right side is _____ than the root node

lesser,greater

greater,lesser

smaller,larger

larger, smaller

29) Two dimensional array is stored in the form of _____ and _____.

Rows and columns

Columns and rows

Vector and scalar

Scalar and vector

30) The data structure in which the data is stored with hierarchy is

Linear datastructure

Non linear datastructure

Primitive datastructure

Non primitive datastructure