QUIZ: 06

DATA STRUCTURE FULL MARK: [2 x 15 = 30]

ROLL NO: 1901206041

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1. …………………. Is a directed tree in which out degree of each node is less than or equal to two.

1. Binary tree
2. Unary tree
3. Trinary tree
4. Both B and C

ANSWER : A

2. State true or false.

i) An empty tree is also a binary tree.

ii) In strictly binary tree, the out-degree of every node is either o or 2.

1. True, False
2. True, True
3. False, True
4. False, False

ANSWER : B

3. A Binary Tree can have

1. Can have 2 children
2. Can have 1 children
3. Can have 0 children
4. All

ANSWER : D

4. Postfix expression for (A+B) \*(C+D) is

1. None
2. A B C \* + D +
3. ABCD++\*
4. A B + C D + \*

ANSWER : D

5. How many memory management functions are there in C

1. 2
2. 3
3. 4
4. 1

ANSWER : C

6. Which of the following is not a C memory allocation function

1. calloc( )
2. alloc( )
3. free
4. malloc()

ANSWER : C

7. All memory management functions are found in

1. conio.h
2. stdio.h
3. stdlib.c
4. math.h

ANSWER : C

8. The function that returns memory to the heap is

1. alloc( )
2. malloc( )
3. realloc( )
4. free( )

ANSWER : B

9. In C, local variable are stored in

1. stack
2. heap
3. permanent storage
4. hard disk

ANSWER : A

10. Suffix expression is

1. Infix
2. postfix
3. c.prefix
4. post & prefix

ANSWER : B

11. polish expression is

1. prefix
2. postfix
3. .infix
4. post & prefix

ANSWER : A

12.  A binary tree T has n leaf nodes. The number of nodes of degree 2 in T is

1. log2 n
2. 2n
3. n
4. n -1

ANSWER : D

13. Find the odd man out

1. queue
2. binary tree
3. Avl tree
4. Graph

ANSWER : A

14. A tree is a \_ \_ \_ \_ \_ data structure

1. non-recursive
2. recursive
3. linear
4. non-linear

ANSWER : B

15. A node that does not have any sub-tree is called a \_ \_ \_ \_ \_ \_ \_

1. left node
2. root node
3. terminal node
4. right node

ANSWER : A

**Wrong 3 D Correct C**

**Wrong 3 C Correct B**

**Wrong 8 B Correct D**

**Wrong 11 A Correct C**

**Wrong 15 A Correct C**