

18CSC350T- Comprehension Test 1

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* Required

Non-Linear Data Structures

Which of the following graph traversals closely imitates level order traversal of a binary tree? *

- ☐ Depth First Search
- ☒ Breadth First Search
- ☐ Depth & Breadth First Search
- ☐ Binary Search

The number of edges from the node to the deepest leaf is called of the tree. *

- ☐ Depth
- ☐ Width
- ☒ Height
- ☐ Length

What is a full binary tree? *

- ☒ Each node has exactly zero or two children
- ☐ Each node has exactly two children
- ☐ All the leaves are at the same level
- ☐ Each node has exactly one or two children

Which of the following is not the self balancing binary search tree? *

- ☐ AVL Tree
- ☒ 2-3-4 Tree
- ☐ Red – Black Tree
- ☐ Splay Tree

What is the number of edges present in a complete graph having n vertices? *

- ☐ $(n*(n+1))/2$
- ☒ $(n*(n-1))/2$
- ☐ n
- ☐ Information given is insufficient

A connected planar graph having 6 vertices, 7 edges contains _____ regions. *

- ☐ 15
- ☒ 3
- ☐ 1
- ☐ 11

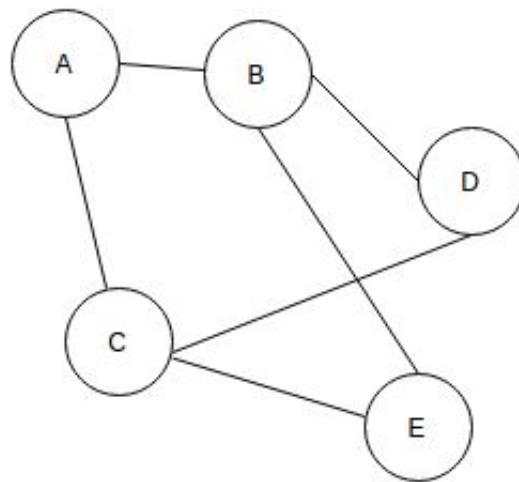
A graph with all vertices having equal degree is known as a _____. *

- ☐ Multi Graph
- ☒ Regular Graph
- ☐ Simple Graph
- ☐ Complete Graph

What is the maximum number of edges in a ^{*} bipartite graph having 10 vertices?

- ☐ 24
- ☐ 21
- ☒ 25
- ☐ 15

For the given graph(G), which of the ^{*} following statements is true?



- ☐ G is a complete graph
- ☐ G is not a connected graph
- ☒ The vertex connectivity of the graph is 2
- ☐ The edge connectivity of the graph is 1

What is the value of the sum of the minimum in-degree and maximum out-degree of an Directed Acyclic Graph? *

- ☐ Depends on a Graph
- ☒ Will always be zero
- ☐ Will always be greater than zero
- ☐ May be zero or greater than zero

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