1.

BST can be traversed in which sequence, choose the correct match:

1. **PreOrder Traversal -**
   Data -->Left Subtree-->Right Subtree
2. **InOrder Traversal -**
   Right Subtree --> Data --> Left Subtree
3. **PostOrder Traversal -**
   Data --> Left Subtree --> Right Subtree

A. Only 1
B. 1 & 2
C. 2 & 3
D. All three

Answer: B

2.

When two towns are expected to connect using road network and need to find shortest path to reach one town to another town then we can use algorithm developed by :

A. Prim's & Kruskal's
B. Dijsktra's & Bellman Ford
C. Only B
D. A & B

Answer:B

3.

Suppose graph represents family relationship between A & B. It is represented in such a way that it concludes A is eleder to B in a family. Which graph can be it is ?

A. Directed Graph
B. Undirected Graph
C. Cycle Graph
D. Loop Graph

Answer: A

4.
Choose the incorrect statement mentioned about trees (assume that the height of the tree is h and root height is 0).

A. The number of nodes n in a full binary tree is 2^h+1 - 1
B. The number of leaf nodes in a full binary tree is 2^h -1
C. The number of NULL links (wasted pointers) in a complete binary tree of n nodes is n+1
D. None of these

Answer:B

5.
In a given graph of N vertices consider if no loop is present in pair of vertices. Then how many max edges can be present in a simple graph:

A. (N/2)
B. (V*N)
C. (N(N − 1)/2)
D. (V*(N/2))

Answer: C