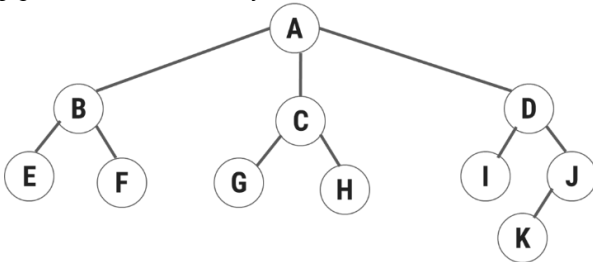
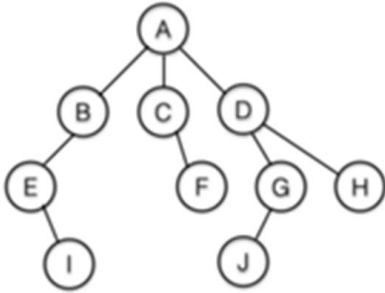
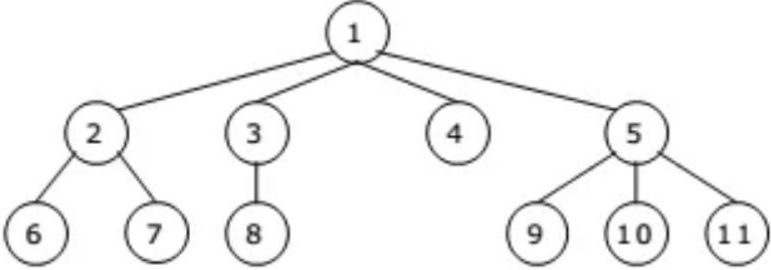
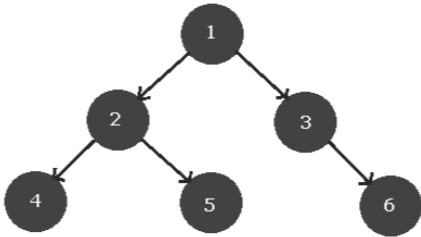
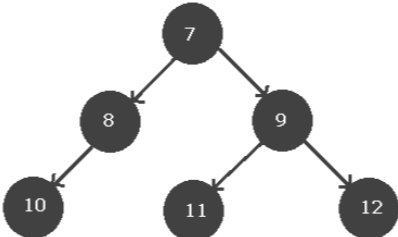
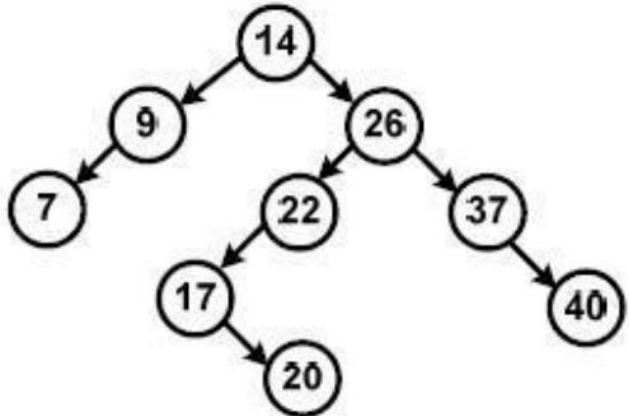
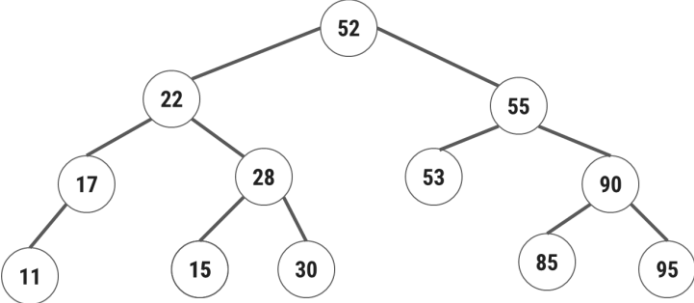
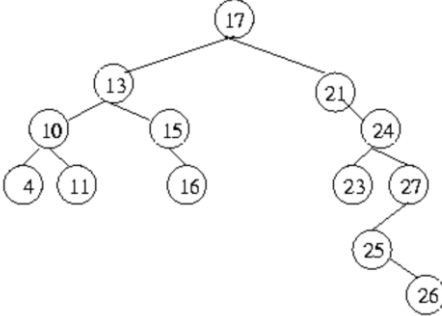
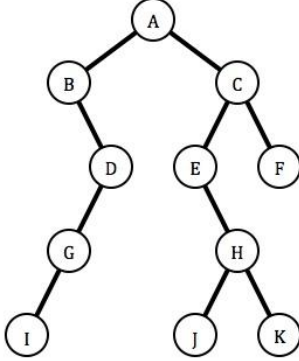
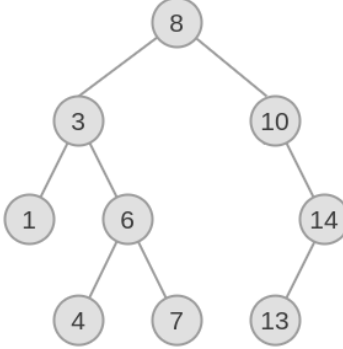
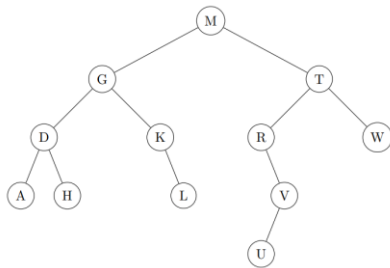




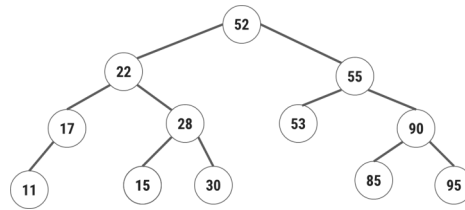
Sr. No.	Unit No.	Question	BL	CO
1	4	Define following Graph Notations with an example <ul style="list-style-type: none">• Node• Edge• Isolated Node• Graph• Directed and Undirected Edge• Degree• In-Degree and Out- Degree• Path• Tree• Leaf Node• Sibling Node• Children• Ancestor nodes• Descendant nodes• Level• Height of a tree• Weight• Forest• M-array tree• Strict Binary Tree• Complete Binary Tree	R	C04
2	4	Write the difference between Binary Tree and Strict/Full Binary Tree	U	C04
3	4	Write the Application Tree	R	C04
4	4	Convert following general tree to Binary tree  <p>(i)</p>  <p>(ii)</p>	A	C04

		 <p>(iii)</p>		C04
5	4	Convert following forest tree to Binary tree	A	C04
		<p>Tree A</p>  <p>Tree B</p> 		
6	4	Define Binary Search Tree. List out Operations on BST(Binary Search Tree) with an example.	A	C04
7	4	Construct binary search tree for the following data (Draw the tree after each operation.) 1. 10,3,15,22,6,45,65,23,78,34,5. 2. 50, 60, 25, 40, 30, 70, 35, 10, 55, 65, 5 3. 40, 65,25, 55, 10,70,30,50,15,80,75 4. 45,56,39,12,34,78,54,67,10,32,89,81 0 5. 60, 15, 4, 30, 70, 65, 10, 95, 25, 34 6. 60, 25, 72, 15, 30, 68, 101, 13, 18, 47, 70, 34	A	C04
8	4	First insert 10 and then insert 24. After these insertions, delete 37 and then delete 22 from the following binary search tree. Draw the tree after each operation.	A	C04
				

9	4	<p>Delete the following numbers from given Binary search tree</p>  <ul style="list-style-type: none"> • Delete (15) • Delete (17) • Delete (55) • Delete (52) • Delete (22) 	A	C04
10	4	<p>Delete the following numbers from given Binary search tree</p>  <ul style="list-style-type: none"> • Delete (25) • Delete (21) • Delete (13) • Delete (16) • Delete (17) 	A	C04
11	4	<p>Write the preorder, inorder and postorder traversals of the binary tree shown below.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>(i)</p> </div> <div style="text-align: center;">  <p>(ii)</p> </div> </div>	A	C04



(iii)



(iv)

12	4	Construct a binary tree from a given preorder and inorder sequence: 1. Preorder: A B D G C E H I F Inorder: D G B A H E I C F 2. Preorder Sequence: 1 2 4 5 3 6 Inorder Sequence : 4 2 5 1 6 3	A	C04
13	4	Construct a binary tree from a given postorder and inorder sequence: 1. Inorder: D G B A H E I C F Postorder: G D B H I E F C A 2. Postorder Traversal: 4 5 2 6 3 1 Inorder Traversal: 4 2 5 1 6 3	A	C04