# Rajalakshmi Engineering College

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## NeoColab_REC_CS23231_DATA STRUCTURES

## REC_DS using C_Week 5_MCQ

Attempt : 2
Total Mark : 15
Marks Obtained : 7

### Section 1 : MCQ

1. Which of the following is the correct post-order traversal of a binary search tree with nodes: 50, 30, 20, 55, 32, 52, 57?

***Answer***

50, 20, 30, 52, 57, 55, 32

***Status :*** Wrong ***Marks : 0/1***

2. Which of the following is the correct pre-order traversal of a binary search tree with nodes: 50, 30, 20, 55, 32, 52, 57?

***Answer***

50, 30, 20, 32, 55, 52, 57

***Status :*** Correct ***Marks : 1/1***

3. Which of the following is a valid preorder traversal of the binary search tree with nodes: 18, 28, 12, 11, 16, 14, 17?

***Answer***

18, 12, 11, 16, 14, 17, 28

***Status :*** Correct ***Marks : 1/1***

4. Which of the following is the correct in-order traversal of a binary search tree with nodes: 9, 3, 5, 11, 8, 4, 2?

***Answer***

9, 3, 2, 5, 8, 4, 11

***Status :*** Wrong ***Marks : 0/1***

5. In a binary search tree with nodes 18, 28, 12, 11, 16, 14, 17, what is the value of the left child of the node 16?

***Answer***

14

***Status :*** Correct ***Marks : 1/1***

6. While inserting the elements 5, 4, 2, 8, 7, 10, 12 in a binary search tree, the element at the lowest level is _____.

***Answer***

4

***Status :*** Wrong ***Marks : 0/1***

7. Find the preorder traversal of the given binary search tree.

***Answer***

9, 2, 1, 6, 4, 7, 10, 14

***Status :*** Correct ***Marks : 1/1***

8. Find the pre-order traversal of the given binary search tree.

***Answer***

13, 2, 1, 4, 14, 18

***Status :*** Correct ***Marks : 1/1***

9. Find the in-order traversal of the given binary search tree.

***Answer***

1, 4, 2, 18, 14, 13

***Status :*** Wrong ***Marks : 0/1***

10. Find the postorder traversal of the given binary search tree.

***Answer***

1, 4, 2, 18, 14, 13

***Status :*** Correct ***Marks : 1/1***

11. How many distinct binary search trees can be created out of 4 distinct keys?

***Answer***

24

***Status :*** Wrong ***Marks : 0/1***

12. While inserting the elements 71, 65, 84, 69, 67, 83 in an empty binary search tree (BST) in the sequence shown, the element in the lowest level is _____.

***Answer***

65

***Status :*** Wrong ***Marks : 0/1***

13. Find the post-order traversal of the given binary search tree.

***Answer***

10, 17, 20, 18, 15, 32, 21

***Status :*** Correct ***Marks : 1/1***

14. The preorder traversal of a binary search tree is 15, 10, 12, 11, 20, 18, 16, 19. Which one of the following is the postorder traversal of the tree?

***Answer***

19, 16, 18, 20, 11, 12, 10, 15

***Status :*** Wrong ***Marks : 0/1***

15. Which of the following operations can be used to traverse a Binary Search Tree (BST) in ascending order?

***Answer***

Preorder traversal

***Status :*** Wrong ***Marks : 0/1***