# Rajalakshmi Engineering College

Name: Subhalakshmi M
Email: 240701539@rajalakshmi.edu.in
Roll no: 240701539
Phone: 6379032776
Branch: REC
Department: I CSE FE
Batch: 2028
Degree: B.E - CSE

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## NeoColab_REC_CS23231_DATA STRUCTURES

## REC_DS using C_Week 5_MCQ

Attempt : 1
Total Mark : 15
Marks Obtained : 14

## Section 1 : MCQ

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

*Answer*

1, 4, 2, 18, 14, 13

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

2. 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*

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

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

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

**Answer**

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

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

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

**Answer**

14

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

5.   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**

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

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

6.   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*

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

**Answer**

1, 2, 4, 13, 14, 18

*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.  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*

10.  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*

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

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

11.  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*

67

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

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

*Answer*

Inorder traversal

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

13. 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*

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

*Answer*

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

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

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

*Answer*

12

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