

# Rajalakshmi Engineering College

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Department: I AI & ML FA

Batch: 2028

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 5\_MCQ

Attempt : 1

Total Mark : 15

Marks Obtained : 15

### Section 1 : MCQ

1. 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**

2. 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**

3. 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

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 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

6. 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

7. 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

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 postorder traversal of the given binary search tree.

**Answer**

1, 4, 2, 18, 14, 13

**Status :** Correct

**Marks :** 1/1

10. 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

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

**Answer**

1, 2, 4, 13, 14, 18

**Status :** Correct

**Marks :** 1/1

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

**Answer**

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

**Status :** Correct

**Marks :** 1/1

13. 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

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

**Answer**

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

**Status :** Correct

**Marks :** 1/1

15. 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