

Polling Quiz MCQs

1. Which of the following statement is true about binary tree?

- A. each node can have exactly two no. of child nodes
- B. each node can have either 0 OR 1 OR 2 no. of child nodes
- C. each node can have either 0 OR 2 no. of child nodes
- D. all of the above
- E. none of the above

Answer: B

2. What is the time complexity of addition, deletion & searching operations in a binary search tree?

- A. $O(1)$
- B. $O(n)$
- C. $O(\log n)$
- D. none of the above

Answer: B

3. What is the maximum height of a binary search tree?

- A. n
- B. n^2
- C. $\log n$
- D. none of the above

Answer: A

4. Which of the traversal prints data elements in a binary search tree in a sorted manner?

- A. preorder
- B. inorder
- C. postorder
- D. all of the above
- E. none of the above

Answer: B

5. The preorder traversal sequence of a binary search tree is 30, 20, 10, 15, 25, 23, 39, 35, 42.

Which one of the following is the postorder traversal sequence of the same tree?

- A. 10, 20, 15, 23, 25, 35, 42, 39, 30
- B. 15, 10, 25, 23, 20, 42, 35, 39, 30
- C. 15, 20, 10, 23, 25, 42, 35, 39, 30
- D. 15, 10, 23, 25, 20, 35, 42, 39, 30

Answer: D