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1. Which node will become unbalanced if a node is inserted as a child of the node R in the given tree?

Options:

- A. L
- B. P
- C. R
- D. M

Correct Option: C. R

2. The ASCII value for character 'A' is:

Options:

- A. 87
- B. 68
- C. 65
- D. 66

Correct Option: C. 65

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3. A hole is created which needs to be filled if the element is _____ from the heap.

Options:

- A. Updated
- B. There is no concept of a hole in the heap
- C. Deleted
- D. Inserted

Correct Option: C. Deleted

4. If the tree becomes unbalanced after deleting a node, then we use _____ to rebalance it.

Options:

- A. Rotations
- B. Insertions
- C. Stack
- D. Heap

Correct Option: A. Rotations

5. A complete binary tree with a property that the value at each node is at least as small as the values in its children is called:

Options:

- A. Max Heap

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- B. Min Heap
- C. Binary Search Tree
- D. Binary Tree

Correct Option: B. Min Heap

6. Consider a max heap, represented by the following array: 49, 39, 36, 31, 27, 21, 35, 12. After the deletion of the node with value 49, which of the following is the updated max heap?

Options:

- A. 39, 31, 36, 12, 27, 21, 35
- B. 39, 36, 31, 12, 27, 21, 35
- C. 39, 36, 31, 27, 21, 35, 12
- D. 39, 36, 35, 21, 27, 31, 12

Correct Option: B. 39, 36, 31, 12, 27, 21, 35

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