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MCQ 1:

In double left-right rotation in the AVL tree, the single _____ rotation is carried out first, followed by a single _____ rotation.

Options:

- a) left, left
- b) right, right
- c) right, left
- d) left, right

Correct Option: c) right, left

MCQ 2:

A Threaded Binary Tree is a binary tree in which every node that does not have a right child has a THREAD (in actual sense, a link) to its _____ successor.

Options:

- a) level order
- b) preorder
- c) inorder
- d) postorder

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Correct Option: c) inorder

MCQ 3:

An expression tree will always be a/an _____.

Options:

- a) strictly binary tree
- b) AVL tree
- c) heap
- d) binary search tree

Correct Option: a) strictly binary tree

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MCQ 4:

In which case of insertion do we require a double rotation to make the AVL tree balanced?

Options:

- a) An insertion into the left subtree of the right child of alpha.
- b) An insertion into the right subtree of the right child of alpha.
- c) An insertion into the left subtree of the left child of alpha.
- d) To balance the AVL tree, double rotation is never required.

Correct Option: a) An insertion into the left subtree of the right child of alpha.

MCQ 5:

In Huffman encoding, codes are sent to the receiver in _____ format.

Options:

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- a) Hexadecimal
- b) Binary
- c) ASCII
- d) Octal

Correct Option: b) Binary

MCQ 6:

A binary tree with 45 internal nodes has _____ links to external nodes.

Options:

- a) 45
- b) 90
- c) 44
- d) 46

Correct Option: d) 46

MCQ 7:

If an expression tree is correct, then its root should have _____.

Options:

- a) an operator
- b) an operand

Correct Option: a) an operator

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MCQ 8:

The maximum height of the AVL tree is _____.

Options:

a) $4.44\log_2 n$

b) 1.44

c) $1.44\log_2 n$

d) $\log_2 n$

Correct Option: c) $1.44\log_2 n$

MCQ 9:

The parse tree used by the compiler is equivalent to _____.

Options:

a) Complete binary tree

b) AVL tree

c) Binary search tree

d) Expression tree

Correct Option: d) Expression tree

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