

50+ Threaded Binary Tree MCQs with FREE PDF

1. *What are null nodes filled with in a threaded binary tree?*

- a) inorder predecessor for left node and inorder successor for right node information
- b) right node with inorder predecessor and left node with inorder successor information
- c) they remain null
- d) some other values randomly

Answer: inorder predecessor for left node and inorder successor for right node information

2. *Which of the following tree traversals work if the null left pointer pointing to the predecessor and null right pointer pointing to the successor in a binary tree?*

- a) inorder, postorder, preorder traversals
- b) inorder
- c) postorder
- d) preorder

Answer: inorder, postorder, preorder traversals

3. *What are double and single threaded trees?*

- a) when both left, right nodes are having null pointers and only right node is null pointer respectively
- b) having 2 and 1 node
- c) using single and double linked lists
- d) using heaps and priority queues

Answer: when both left, right nodes are having null pointers and only right node is null pointer respectively

4. *What is wrong with below code for inorder traversal of inorder threaded binary tree:*

```
inordertraversal(threadedtreenode root):  
    threadedtreenode q = inorderpredecessor(root)  
    while (q!=root):  
        q=inorderpredecessor(q)  
        print q.data
```

- a) inordersuccessor instead of inorderpredecessor must be done
- b) code is correct
- c) it is code for post order
- d) it is code for pre order

Answer: inordersuccessor instead of inorderpredecessor must be done

5. *What is a threaded binary tree traversal?*

- a) a binary tree traversal using stacks

- b) a binary tree traversal using queues
- c) a binary tree traversal using stacks and queues
- d) a binary tree traversal without using stacks and queues

Answer: a binary tree traversal without using stacks and queues

6. What are the disadvantages of normal binary tree traversals?

- a) there are many pointers which are null and thus useless
- b) there is no traversal which is efficient
- c) complexity in implementing
- d) improper traversals

Answer: there are many pointers which are null and thus useless

7. In general, the node content in a threaded binary tree is

- a) leftchild_pointer, left_tag, data, right_tag, rightchild_pointer
- b) leftchild_pointer, left_tag
- c) leftchild_pointer, left_tag, right_tag, rightchild_pointer
- d) leftchild_pointer, left_tag, data

Answer: leftchild_pointer, left_tag, data, right_tag, rightchild_pointer