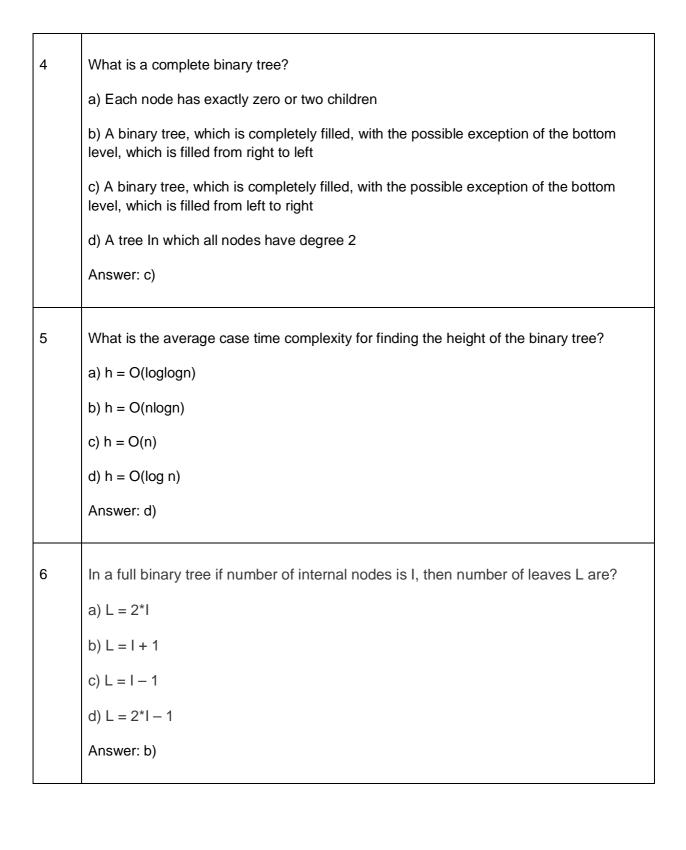
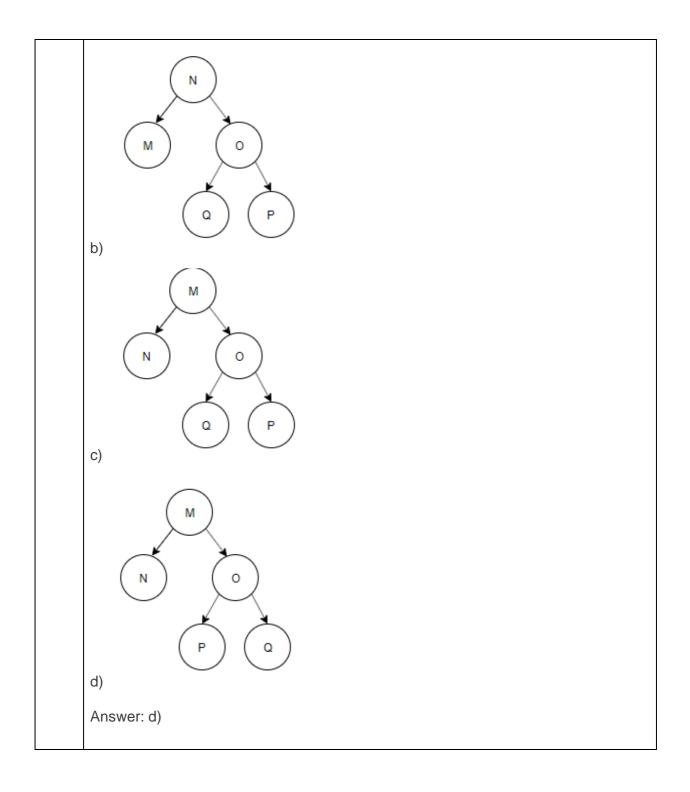
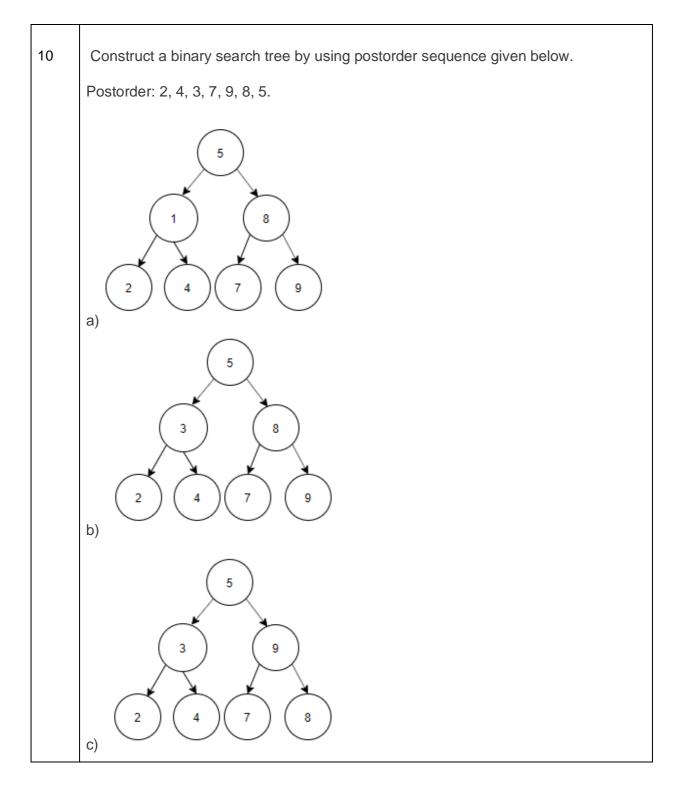
Unit-IV-Trees Question Bank

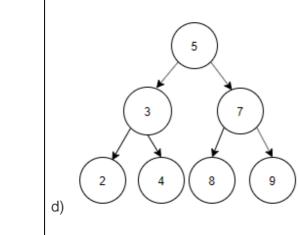
1	The number of edges from the root to the node is called of the tree.
	a) Height
	b) Depth
	c) Length
	d) Width
	Answer: b)
2	The number of edges from the node to the deepest leaf is called of the tree.
	a) Height
	b) Depth
	c) Length
	d) Width
	Answer: a)
3	What is a full binary tree?
	a) Each node has exactly zero or two children
	b) Each node has exactly two children
	c) All the leaves are at the same level
	d) Each node has exactly one or two children
	Answer: a)



7	In a full binary tree if number of internal nodes is I, then number of nodes N are? a) $N = 2*I$ b) $N = I + 1$ c) $N = I - 1$ d) $N = 2*I + 1$ Answer: d)
8	In a full binary tree if there are L leaves, then total number of nodes N are? a) $N = 2*L$ b) $N = L + 1$ c) $N = L - 1$ d) $N = 2*L - 1$ Answer: d)
9	Construct a binary tree by using postorder and inorder sequences given below. Inorder: N, M, P, O, Q Postorder: N, P, Q, O, M







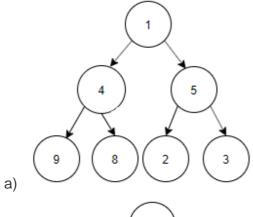
Answer: b)

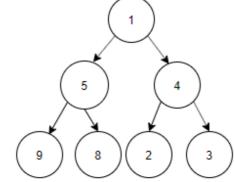
b)

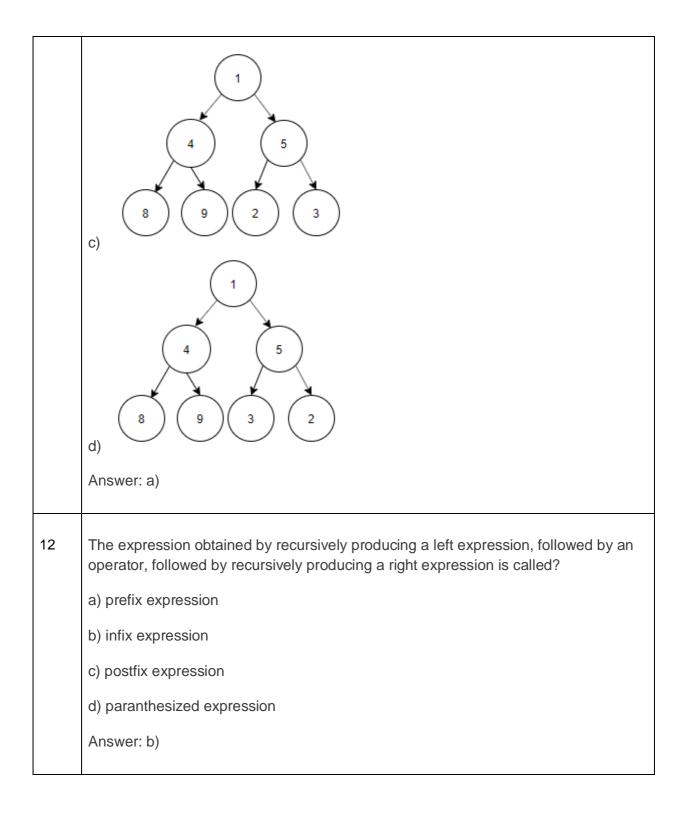
11 Construct a binary tree using inorder and level order traversal given below.

Inorder Traversal: 3, 4, 2, 1, 5, 8, 9

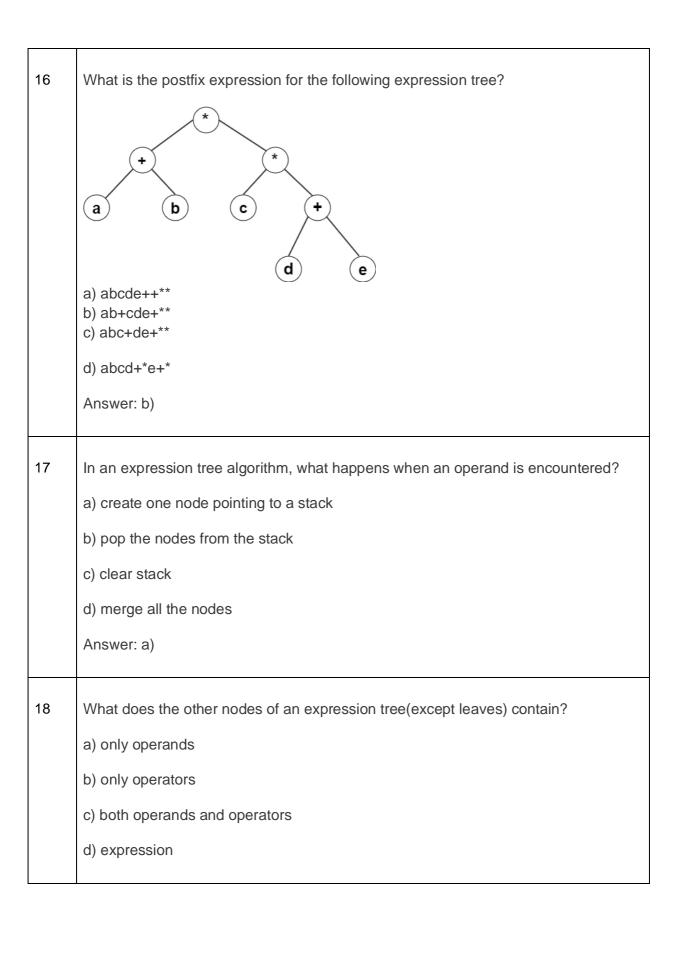
Level Order Traversal: 1, 4, 5, 9, 8, 2, 3







13	The average depth of a binary tree is given as?
	a) O(N)
	b) O(log N)
	c) O(M log N)
	d) O(√N)
	Answer: d)
14	An expression tree is created using?
	a) postfix expression
	b) prefix expression
	c) infix expression
	d) paranthesized expression
	Answer: a)
15	++a*bc*+defg is an?
	a) postfix expression
	b) infix expression
	c) prefix expression
	d) invalid expression
	Answer: c)



	Answer: b)
19	
20	For the tree below, write the in-order traversal.
	2
	7 5
	2 11 9
	6 5
	a) 6, 2, 5, 7, 11, 2, 5, 9, 4 b) 6, 5, 2, 11, 7, 4, 9, 5, 2
	c) 2, 7, 2, 6, 5, 11, 5, 9, 4
	d) 2, 7, 6, 5, 11, 2, 9, 5, 4
	Answer: a)