POLL TEST

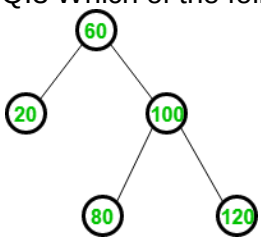
Q.1 Which of the following is TRUE?
(A) The cost of searching an AVL tree is θ (log n) but that of a binary search tree is O(n)
(B) The cost of searching an AVL tree is θ (log n) but that of a complete binary tree is θ (n log n)
(C) The cost of searching a binary search tree is O (log n) but that of an AVL tree is θ(n)
(D) The cost of searching an AVL tree is θ (n log n) but that of a binary search tree is O(n)

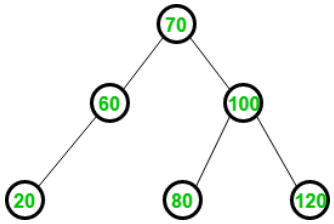
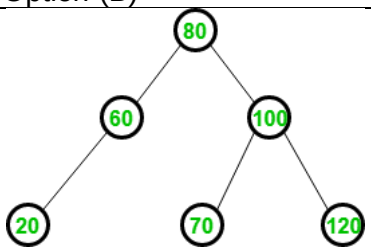
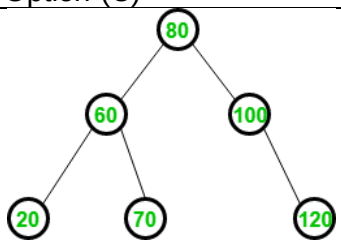
RIGHT ANSWER: (A)

Q.2 What is the maximum height of any AVL-tree with 7 nodes? Assume that the height of a tree with a single node is 0.
(A) 2
(B) 3
(C) 4
(D) 5

RIGHT ANSWER: (B)

Q.3 Which of the following is updated AVL tree after insertion of 70 for following AVL tree?



Option-(A)	Option-(B)	Option-(C)	Option-(D)
			None

RIGHT ANSWER: (C)

Q.4 which of the following statement is/are true?

(i) Adjacency matrix representation is better for sparse graph than adjacency list representation
(ii) Finding whether there is an edge between any two nodes in a graph is easier in adjacency matrix
(iii) Adding a vertex in adjacency list representation is easier than adjacency matrix representation

(A) (i) & (iii) only
(B) (i) only
(C) (ii) & (iii) only
(D) All are true

RIGHT ANSWER: (D)

Q.5: For a given graph G having v vertices and e edges which is connected and has no cycles, which of the following statements is true?
(A) v = e
(B) v = e + 1
(C) v + 1 = e
(D) v = e - 1

RIGHT ASNWER: (B)