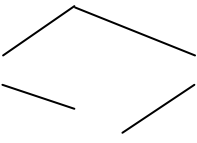
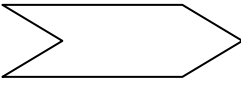


13.	<p>The total cost of accessing the given binary search tree will be</p>  <p>A) 15 B) 8 C) 5 D) 11</p>
14.	<p>One of the following is a specific implementation of Multi Way search Tree</p> <p>A) 2-3-4 Tree B) Binary Search tree C) Binary Tree D) Complete Binary Tree E) AVL Tree</p>
15.	<p>The minimum time will be taken by the algorithm of complexity</p> <p>A) $\log n$ B) n C) $n \log n$ D) n^2 E) n^3</p>
16.	<p>In breadth First Search the no. of levels of the graph are</p>  <p>A) 1 B) 2 C) 3 D) 4</p>
17.	<p>Number of comparisons required by an optimal algorithm to find the maximum and the minimum from the given array is</p> <p>A) $4n$ B) $2n$ C) $3n$ D) n E) $\log n$ F) $n \log n$</p>
18.	<p>A complete binary tree with n leaves contains</p> <p>A) n nodes B) $2n-1$ nodes C) $2n$ nodes D) $\log n$ nodes</p>
19.	<p>Five items 1,2,3,4,5 are pushed in a stack in order starting from 1. The stack is popped four times & popped elements are inserted in a queue then two elements are deleted from the queue & pushed back in the stack. Now one element is popped from the stack, the popped element is</p> <p>A) 1 B) 2 C) 3 D) 4 E) 5</p>
20.	<p>The following is not an example of Divide & Conquer algorithm</p> <p>A) Binary Search B) Merge Sort C) Matrix Multiplication D) traveling Salesman E) Quick Sort</p>
21.	<p>Convert the following into a postfix expression $(A-B)*(D/E)$</p> <p>A) $AB-DE/*$ B) $A*BD/E-$ C) $ABDE-/*$ D) $/-ABDE$ E) $AB/DE-*$</p>
22.	<p>In $T(n) = a * T(n/b) + f(n)$, a refers to</p> <p>A) size of sub problem B) No. of sub problems C) Size of the problem D) Time to combine solution</p>
23.	<p>$T(n) = 4 T(n/2) + n$ then in Big Oh Notation it is</p> <p>A) $O(n^2)$ B) $O(4)$ C) $O(n)$ D) $O(\log(n))$</p>
24.	<p>In Strassen's Multiplication Algorithm the $T(n)$ is</p> <p>A) $7T(n) + bn^2$ B) $7T(n/2) + bn^2$ C) $8T(n/2) + bn^2$ D) $7T(n/2) + bn$</p>

25.	In a fractional Knapsack three items(1,2,3) have weights (4,8,6) & profits (12,32,30) respectively. If the weight of the knapsack is 10 then the solution is A) 3→6 , 2→4 B) 3→4 , 2→6 C) 3→6 , 1→4 D) 1→4 , 2→6
26.	One of the following coin change problem does not form the greedy choice property in which we give the coin in ascending order to give the minimum no. of coins A) 32,8,1 B) 30,20,5,1 C) 50,12,3 D) 30,12,3
27.	Job sequencing with deadlines we have 4 jobs with profits(30,20,10,5) & deadlines as (1,2,1,2) then the best sequence to run on the machine is A) 1,2 B) 2,1 C) 1,3 D) 1,4 E) 3,2
28.	Kruskal algorithm is implementation of A) Optimal Merge Patterns B) Minimum Spanning Tree C) Optimal Binary Search Tree D) Matrix chain Product
29.	In the matrix chain product of (2x10)(10X4)(4X7) the solution is A) 136 B) 420 C) 360 D) 128
30.	In a multistage graph the minimum no. of stages are A) 0 B)3 C) 1 D)2
31.	The applications of graph are in A) Networking B) Internet C) Electronic circuits D) Transportation System E) All of the above
32.	The applications of stack are in A) When we browse the internet B) When we undo in the editor C) Function or procedure calls D) Recursion E) All of the above