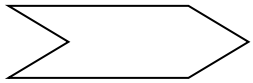
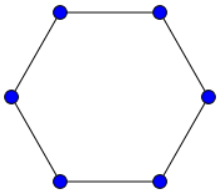
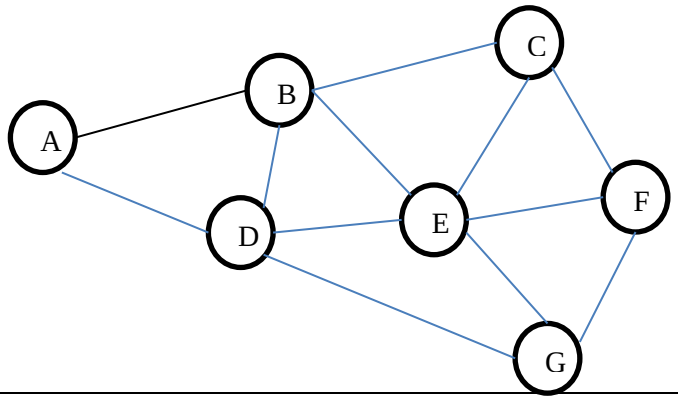
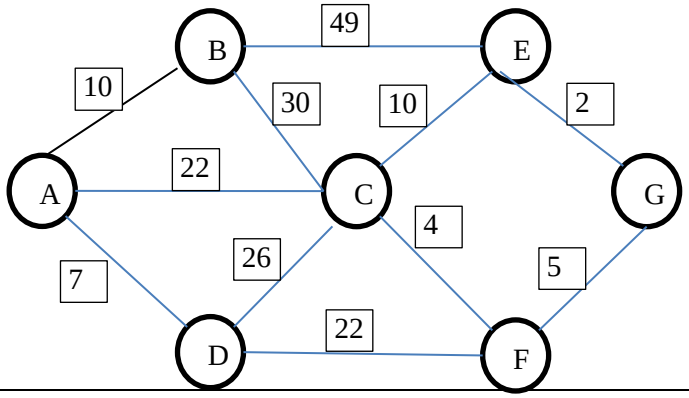
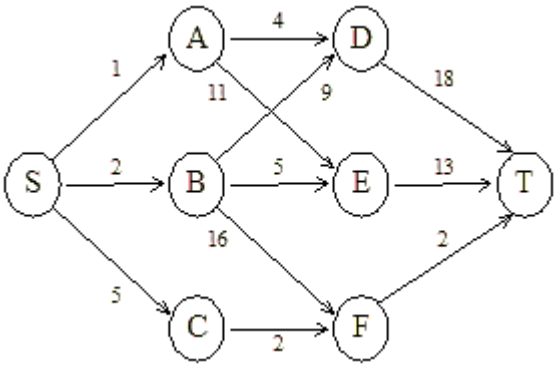
1	In the given graph the maximum distance found between two vertices with the help of BFS will be A) 1 B) 2 C) 3 D) 4 
2	The Given Graph is an example of A) Cycle Graph B) Circular Graph C) Planar Graph D) Bipartite Graph 
3	Consider the following sequences of nodes for the undirected graph given below. A) A B E F D G C B) A B E F C G D C) A D G E B C F D) A D B C G E F A Depth First Search (DFS) is started at node A The nodes are listed in the order they are first visited. Which all of the above is (are) possible output(s)? 
4	Consider the undirected graph. Using Prim's algorithm to construct a minimum spanning tree starting with node A, which one of the following sequences of edges represents a possible order in which the edges would be added to construct the minimum spanning tree? A) (E, G), (C, F), (F, G), (A, D), (A, B), (A, C) B) (A, D), (A, B), (A, C), (C, F), (G, E), (F, G) C) (A, B), (A, D), (D, F), (F, G), (G, E), (F, C) D) (A, D), (A, B), (D, F), (F, C), (F, G), (G, E) 
5	 Considering the following graph as a multi stage graph and using Greedy Approach the shortest path is A) 9 B) 23 C) 5 D) 17
6	Kruskal's algorithm for finding a MST of a weighted graph G with n vertices and m edges has time-complexity of: A. (n^2) B. (m n) C. (m + n) D. (m log n)
7	21374218592137421 For the given pattern we want to use the Knuth-Morris-Pratt Algorithm of string comparison. What is the width of the widest and the next widest border in the given string. A) 10,7 B) 17,10 C) 5,2 D) 7,2
8	Identify the worst case example of Boyer Moore String Matching Algorithm. A) T = aaa … a P = aaah B) T = aaa … a P = haaa C) T = aaa … ah P = aaa D) T = haaa … a P =aaa

1	2	3	4	5	6	7	8