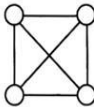
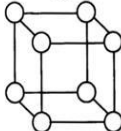


Q.No.	Questions
1.	An undirected graph G which is connected and acyclic is called _____ a) bipartite graph    b) cyclic graph    c) tree    d) forest
2.	An n-vertex graph has _____ edges. a) $n^2$ b) $n-1$ c) $n*n$ d) $n*(n+1)/2$
3.	If G is a connected graph and H is a subgraph of G such that H is a tree, containing all the vertices of G, then H is called a _____ a) regular tree    b) forest    c) spanning tree    d) none of these
4.	A complete graph of 4 vertices is a) non-planar    b) planar    c) bipartite    d) none of these
5.	Which graphs are nonplanar graphs? a) $K_5$ b) $K_{3,3}$ c) Both (a) and (b)    d) none of these
6.	Chromatic number of complete graph $K_n$ is a) $n$ b) $(n-1)$ c) $n(n-1)$ d) none of these
7.	The Chromatic number of a path $P_n$ , ( $n \geq 2$ ) Is a) 2    b) 3    c) $n$ d) none of these
8.	<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 20px;">  <p><math>K_4</math></p> </div> <div style="text-align: center; margin-right: 20px;">  <p><math>Q_3</math></p> </div> </div> a) $K_4$ is planar while $Q_3$ is not    b) both $K_4$ and $Q_3$ are planar c) $Q_3$ is planar while $K_4$ is not    d) neither $K_4$ or $Q_3$ are planar
9.	Kruskal's algorithm is applied to obtain a) radius of a tree    b) minimal spanning tree c) spanning tree    d) none of these
10.	Dijkstra's algorithm is applied to obtain a) the shortest path between vertices    b) the shortest path between edges c) spanning tree    d) none of these