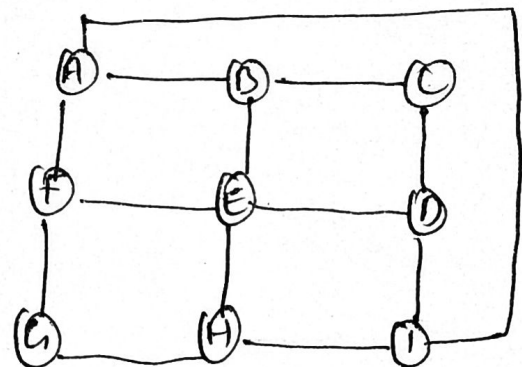
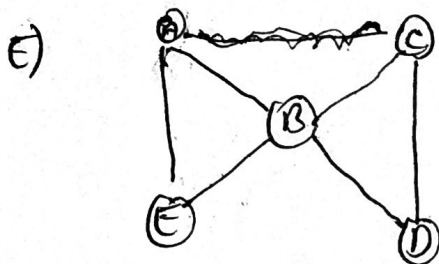
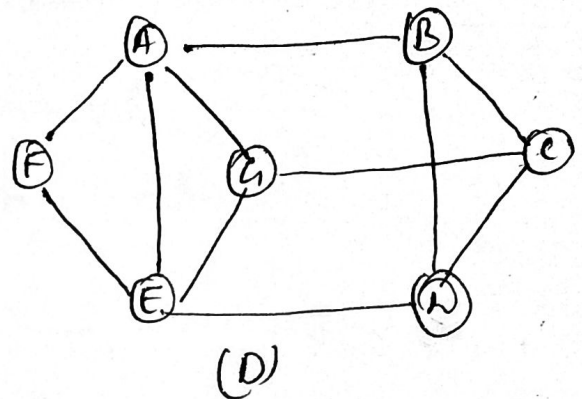
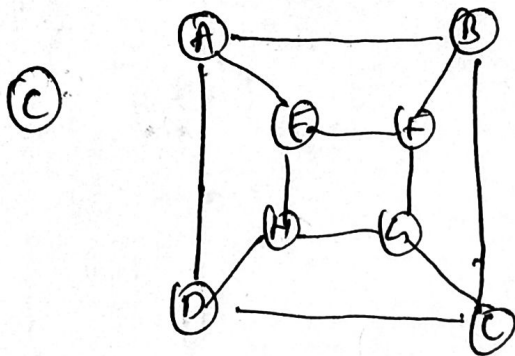
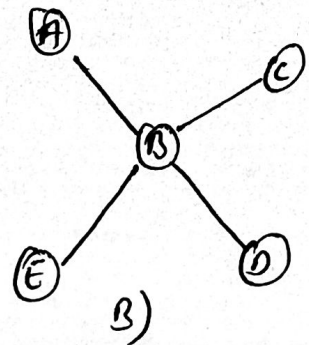
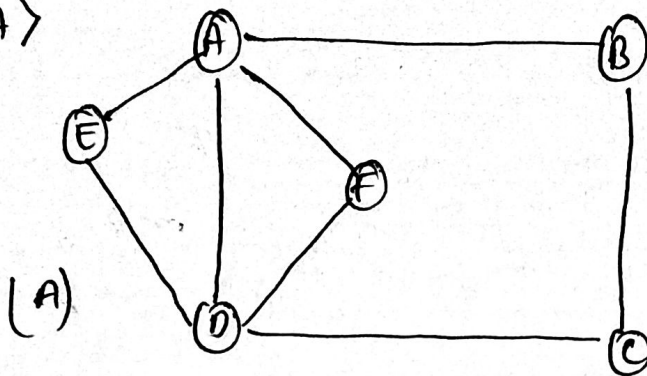


Question 4)

Answer A)



Graph A has neither a hamiltonian path nor hamiltonian cycle so A is not hamiltonian graph.

Graph B has neither a hamiltonian path nor hamiltonian cycle. So B is not hamiltonian graph.

Graph C has hamiltonian cycles as well as hamiltonian path so it is hamiltonian graph.

Graph D has hamiltonian cycle as well as hamiltonian path so it is hamiltonian graph.

Graph E has neither hamiltonian cycle nor hamiltonian path. So it is not hamiltonian graph.

Ans B) Null graph:- it contains only vertices but no edges.

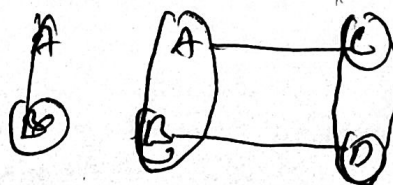
Ex:- (A)

(B) (C)

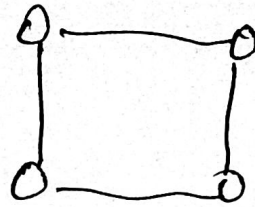
Trivial graph:- graph having single vertex

Ex:- (A)

Bipartite graph:- vertices can be divided into two groups and chromatic number = 2



Regular Graph $\div$ A graph where all vertices have same degree.



Planar Graph $\div$ A graph with no cross over of edges.

