

INTERNAL ASSESSMENT (EVEN SEMESTER 2020)

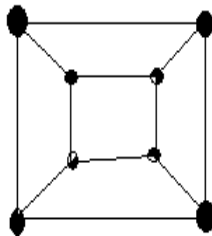
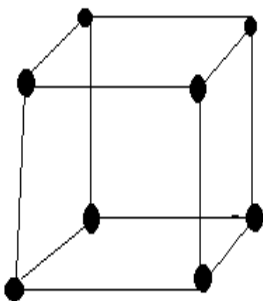
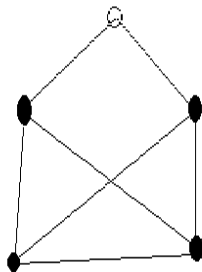
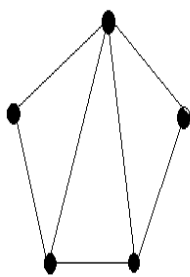
MATHEMATICS HONOURS

SEMESTER IV (GRAPH THEORY)

Paper Code: SH/MTH/405/SEC-2

Answer any 2 from the followings

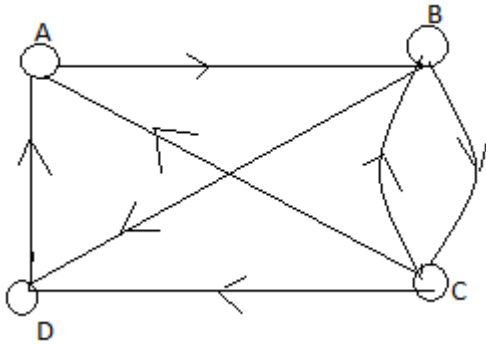
Q1) Check the isomorphism in the following pairs of graphs:



Q2) a) Draw the graph corresponding to the given incidence matrix:

0	1	0	0	1	1
1	0	1	0	0	0
1	0	0	0	0	1
0	1	1	1	1	0
0	0	0	1	0	0

b) Draw the adjacency matrix corresponding to the given graph:



Q3) Define an Eulerian circuit and hence an Eulerian graph with example.

Draw a graph which is Hamiltonian but not Eulerian.