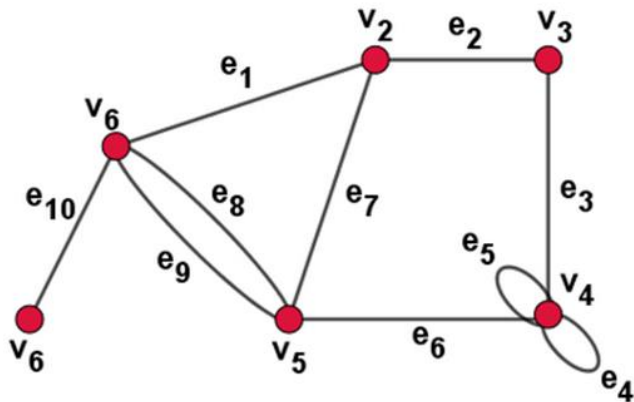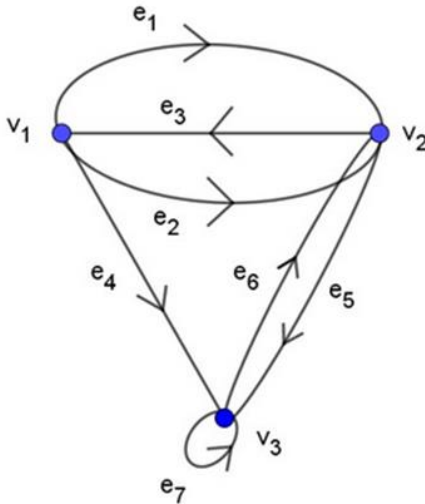# Discrete Mathematical Structures

Week-9

Long Descriptive Questions

1,

Write the incidence matrix, adjacency matrix for the following graphs.

Naming First graph as G1 and second one as G2.

G1

G1: Incidence Matrix

	e1	e2	e3	e4	e5	e6	e7
v1	1	1	-1	0	0	0	0
v2	-1	-1	1	0	1	-1	0
v3	0	0	0	-1	-1	1	1

G1: Adjacency Matrix

	v1	v2	v3
v1	0	2	1
v2	1	0	1
v3	0	1	1

G2

G2: Incidence Matrix

	e1	e2	e3	e4	e5	e6	e7	e8	e9	e10
v1	1	0	0	0	0	0	0	1	1	1
v2	1	1	0	0	0	0	1	0	0	0
v3	0	1	1	0	0	0	0	0	0	0
v4	0	0	0	2	2	0	0	0	0	0
v5	0	0	0	0	0	1	1	1	1	0
v6	0	0	0	0	0	0	0	0	0	1

G2: Adjacency Matrix

	v1	v2	v3	v4	v5	v6
v1	0	1	0	0	2	1
v2	1	0	1	0	1	0
v3	0	1	0	1	0	0
v4	0	0	1	2	1	0
v5	2	1	0	1	0	0
v6	1	0	0	0	0	0