

P.S.SCIENCE & H.D.PATEL ARTS COLLEGE, KADI
INTERNAL EXAMINATION

08/03/2019

B.Sc. Sem - VI
Mathematics 604-A

[Marks 40
[1.45 to 3.45

Que 1: Attempt any two.

- a) Define a graph. Give illustration of a graph which 6 vertices & 10 edges.
- b) Define bipartite graph with illustration.
- c) Define intersection of two graphs with illustration.

Que 2: Attempt any two.

- a) Prove that complete graph with 5 vertices is not a planar graph.
- b) Explain detection of planarity with illustration.
- c) Find geometric dual of the complete graph with '5' vertices.

Que 3: Attempt any two.

- a) Define Adjacency matrix. Explain properties of Adjacency matrix

b) Define acyclic digraph with lustration.

c) Explain Chromatic Partition.
