

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

Internal Examination

B. Sc. Semester - VI

Mathematics - 604

23-3-2016]

[1-30 to 3-00

1. (a) Defines : weighted graph, complete graph, component.
(b) **Attempt any one.**
 - (i) State Operations of Graphy Explain one of them with illustration
 - (ii) Explain Euler graph with illustration.

 2. (a) Defines : cut set, separable graph, planer graph.
(b) **Attempt any one.**
 - (i) Explain Geometric dual of a connected graph with illustration
 - (ii) Explain detection of planarity with illustration.

 3. (a) Defines : Incidence Matrix, Path matrix, Acyclic digraph.
(b) **Attempt any one.**
 - (i) Explain Adjacency Matric with illustration.
 - (ii) Explain diacyclization with illustration.
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