

S.S.M.S.

S.B.B Alias Appasaheb Jedhe Art's, Commerce & Science College

B.C.S Department

Internal Examination, February 2017.

Class: F.Y.B.C.S

Subject: Discrete Mathematics

Time: 1hr

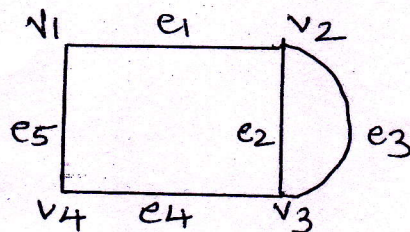
Marks: 20

Q 1. Attempt the following (2x2=4)

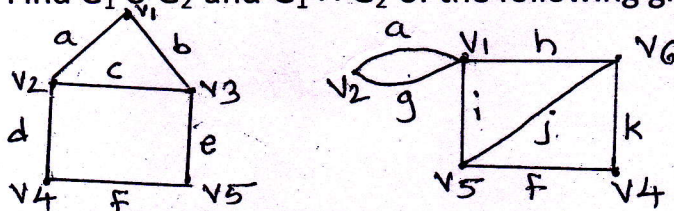
- i) Draw all possible 2-regular graphs on 4 vertices.
- ii) Write definition of Decomposition of graph.

Q 2. Attempt the following (4x4=16)

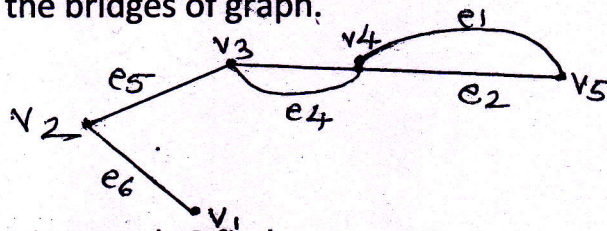
a) Find all sub graphs of the following graph.



b) Find $G_1 \cup G_2$ and $G_1 \cap G_2$ of the following graphs



c) Find the bridges of graph.



d) In the following graph G find:

- a) Distance between V_1 to V_3
- b) Eccentricity of vertex V_4

