



Padmabhushan Vasantdada Patil Pratishthan's College of Engineering

Sion, Chunabhatti – 400022

Mid Term Examination (SH of 2015)

Department of General Engineering

Sub: Applied Chemistry SEM: I Branch/Div: All (A, B, C, D)

Time: 1:40-2:40 am Date: 08 September 2015 Maximum marks:15

NB: Q No 1 is compulsory

Attempt any **Two Questions** from the remaining

All questions carry equal marks

Q.1 Attempt any **FIVE** from the following [05]

- a. Draw structure of metal EDTA complex
- b. Write reactions of soap with CaCl_2 , MgSO_4
- c. write synthesis of Buna S
- d. Write advantages and disadvantages of lime soda process
- e. Write properties and applications of PMMA
- f. Draw neat labeled diagram for osmosis and reverse osmosis

Q2. Distinguish between the following [05]

- A BOD and COD B. Natural Rubber and Vulcanized rubber

Q3 A. Outline all chemical reactions involved in Lime Soda process [05]

B. Write synthesis, properties and applications of phenol formaldehyde

Q4. A. Explain activated sludge process with the help of flow sheet diagram [05]

B. Explain treatment of bleaching powder and chlorine gas for the purification of municipal water