



V.P. & R.P.T.P. SCIENCE COLLEGE
B.Sc. (Sixth Semester)
Internal Exam
Wednesday 08th March, 2017
Subject code: US06CICV03 (Polymer Science)
Industrial Chemistry Vocational

Time: 11:00 am to 12:30 pm

Total Marks: 25

Q-1 Answer the following multiple choice questions: [03]

- I. Which one is thermoplastic polymer?
a. Polyethylene b. Epoxy resin c. Urea formaldehyde d. Phenol formaldehyde
- II. Reaction between diisocyanates and polyol produced _____.
a. Phenol-formaldehyde b. Polyurethane c. Phenolic d. all of these
- III. Fawcett & Gibson synthesized _____.
a. Butadiene b. Polyethylene c. Styrene d. LABS

Q-2 Answer the following short questions (Any Two) [04]

- I. Define Monomer and Repeating unit.
- II. How the phenol is prepared?
- III. Enlist the various methods for polyethylene synthesis.

Q-3 Explain the classification of polymer according to thermal response and molecular arrangements.

[06]

OR

Q-3 Write the mechanism of addition polymerization.

[06]

Q-4 Explain the process of manufacturing phenol formaldehyde resol resin.

[06]

OR

Q-4 Describe the process of manufacturing polyurethane.

[06]

Q-5 Explain the manufacturing of polyethylene.

[06]

OR

Q-5 Explain the manufacturing of Polystyrene.

[06]