

V. P. & R. P. T. P. Science College
B.Sc. (Sixth Semester)
Subject code: US06CICV03 (Polymer Technology)
Wednesday 12th march-2014
Industrial Chemistry



Time: 03:30 pm to 05:00 pm

Total Marks: 30

Q-1 Answer any three of the following:

(06)

1. Why do all Simple Organic Molecules not produce polymer?
2. Give the name of Methods & Techniques of Polymerization.
3. Explain different methods for the preparation of formaldehyde.
4. How is melamine prepared commercially from urea?
5. What are the reaction condition for preparation of LDPE respected by the conventional process & the slurry process?
6. Give the name of several processes for polymerization of ethylene to polyethylene.

Q-2 Define the term functionality and justify that functionality of monomer is not a constant Parameter.

(08)

OR

Q-2 Give the classification of polymer based on molecular arrangement & tacticity.

(08)

Q-3 Give the important properties & Explain the manufacturing of phenol formaldehyde Resin (Resole type).

(08)

OR

Q-3 Giving a neat sketch diagram, describe the process for manufacturing of polyurethane.

(08)

Q-4 Describe a commercial process for the manufacturing of isotactic Polypropylene.

(08)

OR

Q-4 Describe with neat sketch of flow diagram, the suspension process of manufacturing of PVC.

(08)