

V. P. & R. P. T. P. Science College
T.Y. B.Sc. Industrial Chemistry, Semester-VI
US06CICH03
POLYMER TECHNOLOGY
Date: 14th March 2018

Time: 11:00 am to 12:30 pm

Total Marks: [25]

Q-1 Answer the following multiple choice questions:

[03]

I. Polymerization in which two or more chemically different monomers takes part is called

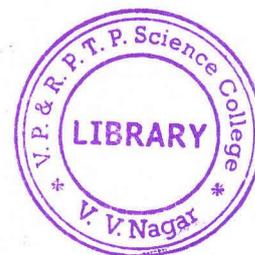
- (a) Addition polymerization. (c) Chain polymerization.
(b) Co- polymerization. (d) Ring opening.

IV. Reaction between phenol or a mixture of phenols with formaldehyde produce _____

- (a) Phenol-formaldehyde (c) Nylons
(b) Amino resins (d) All of these

IX. Nylons are _____

- (a) Polyamide (c) Polycarbonate
(b) Amino resin (d) Phenolic resin



Q-2 Answer the following short question (Any Two)

[04]

- I. Give the comparison between thermosetting & thermoplastic polymers.
II. Write the name & structure of commonly used di-Isocyanates.
III. Write the reaction for the synthesis of Nylon-6,6.

Q-3 Write a short note on Ziegler Natta catalyst.

[06]

OR

Q-3 Explain Bulk & solution polymerization techniques.

[06]

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

[06]

OR

Q-4 Give the important properties & uses of phenol formaldehyde resin.

[06]

Q-5 Describe manufacture of LDPE by High pressure method.

[06]

OR

Q-5 Give the properties and application of polycarbonate.

[06]