

- Q25 Explain the properties of bakelite in brief?
- Q.26 Discuss in brief the solution polymerization process?
- Q.27 What is functionality of a monomer? How will you classify the monomers on the basis of its functionality?
- Q.28 Define the colourants? Discuss their types used in polymer industry?
- Q.29 Write any five uses of urea formaldehyde resin?
- Q.30 Discuss the effect of molecular weight on polymer properties in brief?
- Q.31 Describe the usefulness of extrusion technique in polymer processing industry?
- Q.32 What are additives? Why they are used in plastics?
- Q.33 Explain the calendaring technique in brief?
- Q.34 Describe the principle of extrusion technique in brief?
- Q.35 Explain the importance injection moulding technique in polymer industry?

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)

- Q.36 Explain the structure, properties and uses of polyethylene in detail?
- Q.37 Describe emulsion polymerization process in detail with the help of a neat diagram?
- Q.38 Discuss the concept of molecular weight of polymer? Describe viscosity average molecular weight of polymers in detail?

No. of Printed Pages : 4 180544/120544/030564A/545
Roll No.

4th Sem. / Chem. Subject : Polymer Technology

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice Questions. All Questions are compulsory. (10x1=10)

- Q.1 Which monomer is used in the manufacture of Nylon 6, 6?
a) Propylene b) Hexamethylene diamine
c) Styrene d) Ethylene
- Q.2 Micelle formation takes place in which of following type of polymerization?
a) Emulsion polymerization
b) Solution polymerization
c) Bulk polymerization
d) Suspension polymerization
- Q.3 Which of the following is used for determining the properties of polymer?
a) Empirical formula weight
b) Wight average molecular weight
c) Injection pressure
d) Barrel temperature
- Q.4 What is the other name for addition polymerization?
a) Step growth polymerization
b) Chain growth polymerization
c) Copolymerization
d) None of the above

