

- Q.27 Write four applications of HDPE.
- Q.28 Write short note on various constituents present in rubber latex.
- Q.29 Give properties and applications of epoxy resin.
- Q.30 Write main applications of Polypropylene material.
- Q.31 Give difference between crystalline and amorphous plastics.
- Q.32 Give properties and applications of Polystyrene.
- Q.33 Explain preparation and properties of Nylon 6.
- Q.34 Explain important characteristics of Poly-carbonate.
- Q.35 Write short note on SBR rubber.

SECTION-D

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

- Q.36 Explain properties and applications of:
- a) EPDM rubber b) LLDPE
- Q.37 Discuss (atleast 06 point) difference between thermoplastic and thermoset plastics.
- Q.38 Explain:
- a) PVC and its copolymers
- b) Cellulose plastics.

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Roll No.

3rd Sem / Plastic Engineering Subject:- Plastic Material and Properties - I

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 What is approximate density of the polypropylene?
- a) 0.56 g/cm³ b) 0.90 g/cm³
- c) 1.9 g/cm³ d) 0.68 g/cm³
- Q.2 _____ is the specialized application of PMMA, regarding its excellent optical clarity and high atmospheric resistance?
- a) hard contact lenses
- b) construction
- c) decoration of appliances
- d) insulation wires
- Q.3 What is the approximate density of the polymer poly tetra fluoro ethylene?
- a) 1.8 g/cm³ b) 2.2 g/cm³
- c) 0.6 g/cm³ d) 1.5 g/cm³
- Q.4 Name the polymer formed by the ring opening polymerization of caprolactum?

- a) nylon 6 b) nylon 6.6
c) nomex d) abs
- Q.5 Which polyamide can be used as substitute of steel in belted radial tires?
a) kevlar b) nomex
c) nylon 12 d) nylon 11
- Q.6 Which of the following is not an example of thermoplastic resin?
a) PE b) Nylon
c) PVC d) Bakelite.
- Q.7 Plastics are the example of _____.
a) anhydride b) ceramics
c) polymeric material d) elastomers
- Q.8 Polypropylene is preferred to polythene, because the former is
a) Non-inflammable b) Harder
c) Stronger d) Both c & d
- Q.9 Polystyrene is a light, transparent, thermoplastic material used for making
a) Toys and combs b) Packaging bags
c) Non-sticking utensils d) Electrical insulation
- Q.10 Thermoplastic resin usually
a) Remain hard as long as they are hot
b) Cannot be reclaimed from waste
c) Permanent setting resins
d) Less brittle than thermosetting resins.

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Resin identification code for PP is _____.
- Q.12 _____ polymer is self extinguishing in nature.
- Q.13 Soft drink bottles are mainly made up of _____ plastic.
- Q.14 Expand UHMWHDPE.
- Q.15 Give two applications of HDPE.
- Q.16 Name monomer of PVC.
- Q.17 EPDM stands for _____.
- Q.18 Give two applications of NBR rubber.
- Q.19 Give monomers of Nylon 6,6.
- Q.20 Name two commodity plastics.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write four applications of PMMA.
- Q.22 Give properties and applications of Melamine formaldehyde.
- Q.23 State properties and applications of PET.
- Q.24 Give properties and applications of ABS.
- Q.25 Write short note on Polyurethane.
- Q.26 Explain properties and characteristics of LDPE.

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