

- Q.26 What are unsaturated monomers? Give names of any two.

Q.27 Write moieties for synthesizing PET material. Write synthesis reaction also.

Q.28 Write four differences between HDPE & LDPE.

Q.29 Write four applications of Polyurethane in different fields.

Q.30 Write monomers used to make ABS.

Q.31 Write four applications of NBR.

Q.32 Write any four applications of Nylon.

Q.33 Write the synthesis of PC.

Q.34 Write the starting materials and synthesis of phenol formaldehyde.

Q.35 Define elastomers. Write any four properties.

SECTION-D

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

- Q.36 Give any five differences between thermoplastic plastic and thermoset plastics.

Q.37 Write preparation, four properties and four applications of LLDPE.

Q.38 Write preparation, four properties and four applications of SBR.

No. of Printed Pages : 4 182235/122235/032235
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**3rd Sem / Plastic
Subject:- Plastic Materials and Properties I**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Which of following polymer has maximum density
a) PE b) PP
c) PVC d) PTFE

Q.2 EPDM is
a) Thermoplastic b) Thermoset
c) Rubber d) None of above

Q.3 Ester based plastics can be
a) Thermoplastics plastic only
b) Thermoset plastics only
c) Both thermoplastic and thermoset plastics
d) None of above

Q.4 Which of following is Engineering plastics
a) PE b) PVC
c) PS d) PC

Q.5 Thermoplastic plastics can be recycled
a) Once b) Twice
c) Three times d) Any number of times

Q.6 How many carbons are present in the backbone of Nylon-6 plastics

- a) 2
- b) 4
- c) 6
- d) 8

Q.7 LLDPE is

- a) Homo polymer
- b) Copolymer
- c) Blend
- d) Alloy

Q.8 Plastics Blends are made by

- a) One Polymer
- b) At least two polymers
- c) At least three polymers
- d) All of above

Q.9 Elastomers are

- a) Thermoplastic in nature
- b) Thermoset in nature
- c) Metals
- d) None of above

Q.10 In the term SBR Polymer, R stands for

- a) Reactant
- b) Rubber
- c) Reinforcement
- d) Reagent

SECTION-B

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

Q.11 Expand the term HIPS.

Q.12 Natural rubber is obtained from petro chemicals. (T/F)

Q.13 Define Plastics materials.

Q.14 Name two polyamide based plastics.

Q.15 PVC can produce rigid products only. (T/F)

Q.16 What is XPE?

Q.17 PET & PBT are ester based plastics. (T/F)

Q.18 Give the name of any one diene monomer.

Q.19 What is Teflon?

Q.20 Expand the term ABS.

SECTION-C

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

Q.21 Write any four applications of PVC.

Q.22 Why rubber is vulcanized. Give any one method of vulcanization of rubber.

Q.23 What is HIPS. how is it prepared.

Q.24 Write two most commonly used resins with FRP. Write any two application of each.

Q.25 Write any four applications of plastics foams.