

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain properties and application of:

- a) Poly isoprene rubber
- b) LLDPE

Q.24 Give difference between (any 04 points for each):

- a) Amorphous and crystalline plastics
- b) Thermoplastic and thermoset plastic materials

Q.25 Explain properties and applications of:

- a) unsaturated polyester resin
- b) Poly-urethane

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3rd Sem Branch : Plastic Technology

Subject : Plastic materials and Properties-I

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which polymer is self-extinguishing in nature?

- a) Poly propylene
- b) Poly styrene
- c) poly vinyl chloride
- d) High density poly ethylene

Q.2 PMMA is _____ thermoplastic material.

- a) Transparent
- b) opaque
- c) Both a&b
- d) None of these

Q.3 Buna-s is a _____ Material.

- a) Fibrous
- b) Plastic
- c) Elastomer
- d) Gel

Q.4 Polypropylene compared to polythene is _____.

- a) Harder
- b) Stronger
- c) lighter
- d) All of these

Q.5 Which plastic material is used for coating cook ware?

- a) Poly tetra flouro ethylene
- b) Poly propylene
- c) Poly vinyl chloride
- d) Poly carbonate

Q.6 Trade name of Bakelite is _____.

- a) Urea formaldehyde
- b) Phenol formaldehyde
- c) Melamine formaldehyde
- d) Epoxide resin

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

Q.7 Give monomers of nylon 6,6.

Q.8 Expand PVC.

Q.9 SBR stands for _____.

Q.10 Expand UHMWHDPE.

Q.11 Give an important application of ABS.

Q.12 Name two commodity plastics.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

Q.13 Write short note on production of natural rubber.

Q.14 Explain PVC and its copolymers.

Q.15 Write four applications of PMMA.

Q.16 Give Properties and applications of melamine formaldehyde.

Q.17 State Properties and applications of Nylon 6,6.

Q.18 Explain Properties and applications of PP.

Q.19 Give Properties and applications of polystyrene.

Q.20 Give Properties and applications of epoxy resin.

Q.21 Give Properties and applications of EPDM rubber.

Q.22 Explain important characteristics and applications of Poly-Carbonate.