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3rd Sem / 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 of following is a blend

- a) ABS
- b) SAN
- c) HIPS
- d) SBR

Q.2 Elastomers have

- a) High elongation
- b) No elongation
- c) Low elongation
- d) None of above

Q.3 Which of following is Polyamide

- a) PET
- b) Nylon
- c) PC
- d) PVC

Q.4 PVC is thermally stable

- a) True
- b) False
- c) Can't say
- d) None of above

Q.5 Most common material used to make mould release agent

- a) UF
- b) MF
- c) PF
- d) Silicone

Q.6 SAN is

- a) Homopolymer
- b) Copolymer
- c) Blend
- d) Non of above

SECTION-B

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

Q.7 Expand the term EPDM.

Q.8 PET is an ester based plastics material. (T/F)

Q.9 Expand the term HIPS.

Q.10 Chloroprene is a rubber. (T/F)

Q.11 Define thermoset Plastics.

Q.12 Define Diene monomers.

SECTION-C

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

Q.13 Write four applications of NBR.

Q.14 What is polyester based thermoplastic polymer material, Name two.

Q.15 Write four properties of HDPE.

Q.16 What are engineering thermoplastic materials? Give two examples.

Q.17 Write four applications of PVC.

Q.18 Give any four differences between Thermoplastics and Thermoset Plastics.

Q.19 Expand LLDPE, how is it synthesized.

Q.20 What is polyamide based plastics. Name any two.

Q.21 Write any four properties of Poly styrene material.

Q.22 Write four properties of SBR.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

Q.23 Expand HDPE and LDPE. Give four differences between two.

Q.24 Write the moieties, synthesis and four applications of Epoxy resins.

Q.25 Write synthesis, four properties and four applications of Poly carbonate.