

## **SECTION-D**

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

Q.23 Give difference between thermoplastic and thermoset plastics (atleast 08 points)

Q.24 Discuss properties and applications of

- a) Phenol formaldehyde
- b) Polyurethane (PU)

Q.25 Explain:

- a) PVC and its copolymers
- b) Polystyrene and its copolymers

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**3rd Sem / Branch : Plastic Technology  
Sub.: Plastic Materials and Properties-I**

Time : 3Hrs.

M.M. : 60

## **SECTION-A**

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

Q.1 Which type of plastics float on water?

- a) Poly propylene & poly styrene
- b) Poly amide & poly acetylene
- c) Poly ethylene & poly propylene
- d) Poly carbonate & poly propylene

Q.2 What is the specialized application of PMMA, keeping in mind its excellent optical clarity and high atmospheric resistance?

- a) Contact lenses
- b) Construction
- c) Decoration of appliances
- d) Insulation wires

Q.3 Which monomer is used for nylon preparation?

- a) Hexa methylene di-amine and adipic acid
- b) Hexa methylene di-amine and salicylic acid
- c) Hydrochloric acid and adipic acid
- d) Sulphuric acid and hydrogen sulphate

Q.4 PET is mostly used in \_\_\_\_\_?

- a) Aeroplane
- b) Bottles
- c) Buckets
- d) None of these

Q.5 Which of the following is an example of thermoplastic resin?

- a) PE
- b) UF
- c) MF
- d) Bakelite

Q.6 \_\_\_\_\_ is the approximate density of HDPE?

- a) 1.8 g/cm<sup>3</sup>
- b) 2.2 g/cm<sup>3</sup>
- c) 0.92 g/cm<sup>3</sup>
- d) 1.5 g/cm<sup>3</sup>

### SECTION-B

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 EPDM stands for \_\_\_\_\_.

Q.8 Give two applications of NBR rubber.

Q.9 Give two applications of HDPE.

Q.10 Bakelite is the trade name of \_\_\_\_\_.

Q.11 Expand LLDPE.

Q.12 \_\_\_\_\_ is used as vulcanizing agent in rubber processing.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Compare LDPE properties with LLDPE.

Q.14 Give properties and application of ABS.

Q.15 Explain Cellulose plastics and their types.

Q.16 Give properties and applications of HDPE.

Q.17 State various applications of Nylon material.

Q.18 Explain properties and uses of silicone rubber.

Q.19 What is EPDM rubber? Explain its uses.

Q.20 Explain properties and applications of epoxy resin.

Q.21 Give characteristics of Poly-carbonates.

Q.22 Discuss properties and applications of Chloroprene rubber.