

- Q.27 State various applications of Nylon material.
- Q.28 Write short note on PMMA.
- Q.29 Explain Cellulose plastics and their types.
- Q.30 Give properties and applications of PET.
- Q.31 Explain properties and applications of unsaturated polyester resin.
- Q.32 Give five applications of silicone rubber.
- Q.33 Explain properties and uses of Nitrile rubber.
- Q.34 Give properties and applications of Phenol formaldehyde
- Q.35 Write short note on :-Silicon rubber

SECTION-D

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

- Q.36 Write short note on :-
- Thermoplastic materials
 - Elastomers
 - Crystalline polymers
- Q.37 Discuss properties and applications of:
- Urea formaldehyde
 - Polyurethane (PU)
- Q.38 Write short note on :
- Chloroprene rubber
 - UHMWHDPE

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Plastic Engineering 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 Nitrile butadiene rubber (NBR) is _____.
 - A natural rubber
 - Another name of silicone rubber
 - A synthetic polymer
 - None of these
- Q.2 Buna-S is a _____ material.
 - Fibrous
 - Plastic
 - elastomer
 - gel
- Q.3 Polypropylene compared to polythene is _____.
 - Harder
 - Stronger
 - Lighter
 - All of these
- Q.4 Which of the following is not a thermoplastic material?
 - Epoxy polymer
 - PVC
 - Polystyrene
 - Polythene

Q.5 _____ is the approximate density of HDPE?

- a) 1.8g/cm^3 b) 2.2g/cm^3
- c) 0.92g/cm^3 d) 1.5g/cm^3

Q.6 Full form of EPDM is _____.

- a) Ethylene polymer diene monomer
- b) Ethylene Propylene diene - monomer
- c) Expanded polymer diene monomer
- d) none of the above

Q.7 Select commodity plastic from following?

- a) Polyactals b) ABS
- c) Polypropylene d) Nylon

Q.8 Thermosetting polymers as compared to thermoplastic polymers _____.

- a) Are formed by addition polymerization
- b) Have three dimensional structure
- c) Have linear structure
- d) None of these

Q.9 _____ scrap can be recycled again.

- a) Bakelite b) Poly-ethylene
- c) Epoxy resin d) None of these

Q.10 Common name of PMMA is _____.

- a) Bakelite b) Lunax
- c) Acrylic d) None of these

SECTION-B

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

Q.11 Give monomers of Nylon 6,6.

Q.12 Electric switches are generally made up of which material?

Q.13 Expand PVC.

Q.14 Give an important application of PET.

Q.15 Bakelite is the trade name of _____.

Q.16 Plastic ropes are generally made up of _____.

Q.17 Expand UHMWHDPE.

Q.18 Give two important applications of HDPE.

Q.19 SBR stands for _____.

Q.20 Expand PMMA.

SECTION-C

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

Q.21 Give properties and applications of LDPE

Q.22 Explain four important applications of HDPE

Q.23 Discuss preparation and properties of PVC

Q.24 Write short note on Copolymers of PVC

Q.25 State properties and applications of PP

Q.26 Give two special properties and applications of Poly carbonate.