

- Q.27 Discuss application of plastics in biomedical industry.
- Q.28 Explain role of composition in polymer blends.
- Q.29 Explain bio material polymers.
- Q.30 Discuss nano composite and their advantages.
- Q.31 Discuss PVC Nitrile rubber blend.
- Q.32 Explain membrane separation methods.
- Q.33 Discuss various types of fibers used in FRP industry.
- Q.34 Discuss various parameters for compatibility of polymer blends.
- Q.35 Explain preparation of Graphite fiber.

Section-D

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

- Q.36 Explain Polymer blends, their advantage and difference between polymer blend and polymer alloy.
- Q.37 Discuss various properties and application of the following
- a. LCP b. PSO
- Q.38 Write short notes on
- a. Opto electronic plastic b. Bio Polymers

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Roll No.

4th Sem. Branch : Plastic

**Subject : Plastic Materials & Properties-II/
Engg. & Sp. Poly**

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1** Which of the following is an Engineering Plastic
a) PP b) PE
c) PVC d) POM
- Q.2** PES stands for _____
a) Poly ether sulphide
b) Poly ether sulphone
c) Poly ethylene sulphones
d) Poly ethylene sulphide
- Q.3** Talc Powder is used in Plastic as _____
a) Filler b) Additive
c) Colorant d) None of the above
- Q.4** Which of the following is used as a Nano filler in plastic composites
a) CNT b) Glass fiber
c) Mica d) None of the above

- Q.5 PPO Stands for _____
- Poly phenylene oxide
 - Poly propylene oxide
 - Poly phenylene di oxide
 - None of the above
- Q.6 Which of the following has lowest coefficient of friction
- PEEK
 - PTFE
 - PPO
 - PE
- Q.7 Which of the following has highest density
- PTFE
 - PEEK
 - LCP
 - PPS
- Q.8 Thermoplastics are _____
- Conductors
 - Semi-Conductors
 - Insulators
 - Conducts at below the room temperature only
- Q.9 Polymer concrete is also known as _____
- Epoxy concrete
 - Epoxy granite
 - Epoxy cement
 - None of the above
- Q.10 Which of the following is an example of miscible polymer blend?
- PCV Nitrile Rubber
 - PP-EPDM
 - PVC-ABS
 - None of the above

Section-B

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

- Q.11 Write two applications of acrylic plastic.
- Q.12 POM Stands for _____.
- Q.13 Give one example of coupling agent.
- Q.14 LCP Stands for _____.
- Q.15 Give one example of Opto-electronic Plastic.
- Q.16 Give two applications of PPO.
- Q.17 Give one name of Bio polymer.
- Q.18 Define reinforcing agent in polymer composite.
- Q.19 Give two applications of membrane separation.
- Q.20 Give Two properties of PEEK.

Section-C

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

- Q.21 Explain various applications of PTFE.
- Q.22 Explain Role of fiber in polymer composite.
- Q.23 Discuss ABS/PVC Blend and their advantages.
- Q.24 Discuss role of binders and coupling agent in polymer composite.
- Q.25 Discuss various types of filler used in polymer composite.
- Q.26 Discuss preparation of boron fiber.