

- Q.25 Briefly explain polymer Nano- composites.
- Q.26 Give properties and applications of POM material.
- Q.27 Discuss polymer-concretes and their applications
- Q.28 Explain various filters used in FRP industry.
- Q.29 State four advantages of polymer blending
- Q.30 Discuss properties and applications of PTFE
- Q.31 Explain principle of composite reinforcement
- Q.32 State various applications of PPS.
- Q.33 Give properties and applications of PPO material
- Q.34 Give properties and applications of PEEK material
- Q.35 Explain role and importance of coupling agents

SECTION-D

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

- Q.36 Explain preparation, properties and applications of carbon-fibres.
- Q.37 Discuss :
 - a) Effect of fibre reinforcement on strength of plastics.
 - b) Role and nature of Binders used in FRP.
- Q.38 Discuss :
 - a) Conducting polymers
 - b) Properties and applications of LCP.

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Roll No.

4th Sem / Plastic

Subject:- Plastic Materials and properties- II / Engg. & SP. Poly.

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 PEEK stands for_____?
 - a) Poly Ether Ether Ketone
 - b) Poly ester ester ketone
 - c) Poly ethyl ether ketone
 - d) Polyester ethyl either ketone
- Q.2 "Teflon" is the trade name of which polymer?
 - a) PET
 - b) PS
 - c) PE
 - d) PTFE
- Q.3 Which polymer is used aircraft application?
 - a) PEEK
 - b) PS
 - c) PE
 - d) PA
- Q.4 POM stands for_____
 - a) Plastic oxygen model
 - b) Poly oxide monomer
 - c) Poly oxy methylene
 - d) None of the above

- Q.5 Silanes & Titanates are the example of _____.
 a) Reinforcing filters b) Coupling agents
 c) Resin substance d) None of the above
- Q.6 _____ is the fibre commonly used in GRP.
 a) Graphite b) boron
 c) Kevlar d) Glass
- Q.7 _____ plastic material is mostly used in membrane separation.
 a) Poly-sulphones b) PTFE
 c) Poly-arylates d) LCP
- Q.8 Which of the following is an example of miscible polymer blend?
 a) PVC-Nitrile Rubber b) PP-EPDM
 c) PVC-ABS d) none of the above
- Q.9 Heat resistance of unsaturated polyester resin is _____ than epoxy resin.
 a) More b) Less
 c) Equal to d) None of these
- Q.10 LCP stands for _____.
 a) Low calorie plastics
 b) Liquid chlorine polymer
 c) Low crystal polymer
 d) Liquid crystalline polymer

SECTION-B

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

- Q.11 Expand LCP.
- Q.12 Name four fibres used in FRP's
- Q.13 Which polymeric material is used in hemo-dialysis membranes?
- Q.14 Expand PPO.
- Q.15 Give two food packaging application of Plastics.
- Q.16 Name two conducting polymers.
- Q.17 Give two advantages of polymer concrete.
- Q.18 Name two resins of binders used in FRP industry.
- Q.19 Poly-sulphones generally shows _____ UV resistance than PC.
- Q.20 Poly Lactic acid is an example of _____ polymer.

SECTION-C

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

- Q.21 Discuss poly-arylates material.
- Q.22 Explain properties and advantages of ABS-PVC blends.
- Q.23 Discuss four Bio medical applications of plastics.
- Q.24 Discuss various types of glass-fibres used in FRP industry.