

- 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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4th Sem / Plastic
Subject:- Plastic Materials and properties- II /
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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.