

- Q.30 Discuss preparation of carbon fibres.
 Q.31 Discuss the role and applications of parameter of compatibility in polymer blends.
 Q.32 Discuss various types of fillers used in FRP industry.
 Q.33 Give characteristics and properties of POM.
 Q.34 Discuss conducting polymers with examples.
 Q.35 Explain Polymer concretes and their importance.

SECTION-D

Note : Long Answer type question. Attempt any two questions. $(2 \times 10 = 20)$

- Q.36 Explain characteristics properties and applications of:
 a) PEEK b) PPO
 Q.37 Write short note on:
 a) Bio-polymers
 b) Bio-medical application of plastics
 Q.38 Explain polymer blends and their types. Also explain properties and advantages of PVC-ABS and PP-EPDM blend.

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4th Sem / Plastic Engineering
Subject : Plastic Materials & Properties-II
 Engg. & SP. Polymers

Time : 3 Hrs. **M.M. : 100**

SECTION-A

Note : Multiple choice questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.1 The plastics are _____ in nature.
 a) Semi conductors b) Conductors
 c) Insulators d) None of these
 Q.2 PPS stands for _____
 a) Poly phenylene sulphide
 b) Poly phenly sulphur
 c) Poly Phenol Sulphones
 d) Polyester propane sulphide
 Q.3 Which material used for non-stick coating?
 a) PS b) PES
 c) PTFE d) PEEK
 Q.4 ‘Delrin’ is the trade name of _____?
 a) PS b) POM
 c) PTFE d) PP
 Q.5 Which material used for non-stick coating?
 a) PS b) PDS

- c) PTFE d) PEEK
- Q.6 Which polymer is used aircraft application?
 a) PEEK b) PS
 c) PE d) PA
- Q.7 Density of PTFE is ____
 a) 0.92 g/cc b) 2.2 g/cc
 c) 1.67 g/cc d) 1.05 g/cc
- Q.8 FRP stands for ____
 a) Fibre recycled plastic
 b) Filled reinforced polymer
 c) Fibre reinforced plastic
 d) None of these
- Q.9 Which of the following is an example of filler used in FRP industry?
 a) Mica dust b) Calcium carbonate
 c) Talc d) All of these
- Q.10 ____ is the name of conducting polymer.
 a) Poly ethylene b) Poly acetylene
 c) PP d) None of these
- SECTION-B**
- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Name two coupling agents used in FRP industry.
- Q.12 'Teflon' is the trade name of ____ material.
- Q.13 Name two conducting polymers.
- Q.14 Name two fibres used in FRP's.
- Q.15 ____ material is used in snap-fit assembly.
- Q.16 Give two bio-medical applications of plastic material.
- Q.17 Give two applications of POM.
- Q.18 Give two advantages of polymer blending.
- Q.19 PES stands for ____.
- Q.20 Give two examples of polymer blends.
- SECTION-C**
- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Discuss properties and characteristics of Poly-sulphones.
- Q.22 Give properties and applications of PTFE.
- Q.23 Explain importance PVC-ABS polymer blend.
- Q.24 Explain different applications of LCP.
- Q.25 Discuss various polymers used in food packaging applications.
- Q.26 Explain interpenetrating networks.
- Q.27 Discuss various applications where polymer membranes are used.
- Q.28 Give advantages and disadvantages of polymer blending.
- Q.29 State various properties and characteristics of PES.