

- 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. (2x10=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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Roll No.....

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. (10x1=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.