

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)

Q.23 Discuss

- a) Styrene block copolymer
- b) ABS/PVC Blend

Q.24 Explain various types of reinforcement fibers and binders used in FRP.

Q.25 Explain Properties and application of the following

- a) Thermoplastic Polyurethane elastomer
- b) PEEK

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4th Sem.

Branch : Plastic Technology

Sub. Plastic Materials and Properties-II

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

Q.1 Which of the following is not an Engineering plastic.

- a) PTFE
- b) PSO
- c) PVC
- d) POM

Q.2 Filler is added in plastic to ____.

- a) Increase mechanical strength
- b) Decrease Product cost
- c) Decrease mechanical strength
- d) Both A & B

Q.3 PPO stands for ____.

- a) Phenylene oxide
- b) Poly propylene oxide

- c) Poly phenylene dioxide
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 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.6 Polycarbonate is characterised by _____
- a) High Clarity
b) Good impact strength
c) Self extinguishing in nature
d) All of the above

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 FRP Stands for _____.
- Q.8 Give two properties of PEEK.

- Q.9 Define elastomer.
- Q.10 Define polymer Alloy.
- Q.11 Give one name of Binder used in FRP.
- Q.12 Give one example of Opto-Electronic Plastic.

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)

- Q.13 Explain Effect of reinforcement on strength of plastic.
- Q.14 Explain biodegradable polymers.
- Q.15 Discuss properties and application of PTFE.
- Q.16 Discuss coupling agent and its uses.
- Q.17 Discuss nano composite and their advantages.
- Q.18 Explain advantages of polymer blend and alloy.
- Q.19 Discuss polymer concrete and its advantages.
- Q.20 Discuss properties and application of Thermoplastic olefins.
- Q.21 Explain preparation of Graphite fiber.
- Q.22 Explain Principle of composite reinforcement.