

SECTION-D

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

- Q.23 Discuss
- a) Syrene block co polymer
 - 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.