



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 187601

Roll No.

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B. Tech.

(SEM. VI) THEORY EXAMINATION, 2014-15
PLASTIC MATERIALS - II

Time : 3 Hours]

[Total Marks : 100

Note: Attempt all questions.

- 1 Write short notes on any four of the following: $5 \times 4 = 20$
 - (a) High performance Polymer
 - (b) Immiscible blend
 - (c) Epoxide resin
 - (d) Compatibilization mechanism
 - (e) Novolaks & resols resin
 - (f) Biopolymers.
- 2 Attempt any two questions : $15 \times 2 = 30$
 - (a) Give the manufacturing process of the Polysulphone & explain its processing behavior with application .
 - (b) Explain Blend & alloy with the help of suitable example.
 - (c) Give the schematic flow diagram of Nylon 6,6 manufacturing with industrial applications.

- 3 Attempt any two questions: 15×2=30
- (a) Give the various methods of PTFE manufacturing & explain any one of manufacturing methods.
 - (b) Give the schematic flow diagram of Polycarbonate manufacturing with properties & applications.
 - (c) Give the manufacturing process of poly ether ether ketone (PEEK). Draw a neat flow sheet and mention its applications.

- 4 Attempt any two questions: 10×2=20
- (a) Explain the properties of UF and MF resins,.
 - (b) Which material is used for manufacturing of gears ? Also explain its properties with their advantages and disadvantages.
 - (c) Which material is used for manufacturing of infant baby feeding bottle. Also explain its properties with their advantage and disadvantages.
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