

B.Tech. Eighth Semester (Polymer (Plastics) Technology) (CGS System)  
**11146 : Polymer Processing - II : 8 PP 01**

P. Pages : 2

Time : Three Hours



**AU - 3061**

Max. Marks : 80

- Notes :
1. Answer **three** question from section A and **three** question from section B.
  2. Diagrams and Chemicals equations should be given wherever necessary.
  3. Illustrate your answer necessary with the help of neat sketches.
  4. Discuss the reaction, mechanism wherever necessary.

**SECTION - A**

1. a) What do you mean by extension? Explain in detail. 7
  - i) L/D ratio
  - ii) Helix angle
  - iii) Breaker Plate
- b) Explain in detail machinery and equipments used for pipe manufacturing using vacuum sizing process. 7

**OR**

2. a) Explain in detail, mechanism of feed, compression and metering zone of an extruder. 7
- b) Draw a diagram of extrusion die and explain the significance of approach section and Land section. 7
3. a) Explain in detail twin screw extrusion and compare it with single screw extrusion. 7
- b) Explain in detail co-extrusion. 6

**OR**

4. a) Explain in detail blown film manufacturing process with sketch. 7
- b) What is the effect of material properties on the quality of extruded products. 6
5. a) What do you mean by blow molding? Explain in detail blow molding cycle. 7
- b) Explain with neat sketch, wheel type continuous EBM? 6

**OR**

6. Explain in detail. 13
  - i) Injection blow molding
  - ii) Ram type intermittent EBM.
  - iii) Parison programming for wall thickness control in EBM.

**SECTION - B**

7. a) Explain the principle and process description of calendering using 'L' type four roll calendars. 7  
b) What are the different types of calendering? Explain the significance of each type. 6

**OR**

8. Explain in detail. 13  
i) Roll crown  
ii) Roll crossing  
iii) Roll bending.
9. a) Explain in detail, vacuum metaling process. 7  
b) Explain in detail, welding of plastics. 6

**OR**

10. a) Explain in detail, solvent cementing of plastics. 6  
b) Explain in detail, electroplating on plastics. 7
11. Explain in detail with neat sketch 14  
i) Dry spinning  
ii) Match mold forming.

**OR**

12. a) What do you mean by spinning? Explain in detail, melt spinning of plastics. 7  
b) What do you mean by vacuum forming? Explain in detail plug assist vacuum forming. 7

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