

B.Tech. Seventh Semester (Polymer (Plastic) Technology) (CGS)
11134 : Polymer Processing - I : 7 PP 01

P. Pages : 2

Time : Three Hours



AU - 2939

Max. Marks : 80

- Notes :
1. Answer **three** question from Section A and **three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Diagrams and chemical equations should be given wherever necessary.
 4. Illustrate your answer necessary with the help of neat sketches.
 5. Discuss the reaction, mechanism wherever necessary.

SECTION – A

1. What do you mean by Injection molding? Explain in detail nomenclature of Injection molding. **14**

OR

2. Explain in detail. **14**
- i) Shot capacity
 - ii) Plasticizing capacity
 - iii) Mold clamping force
 - iv) Day light opening

3. a) Explain in detail, quality of Injection molded articles on the basis of appearance of product. **7**
b) Explain in detail feed system in injection mold. **6**

OR

4. a) Explain in detail injection molding of thermosetting materials. **6**
b) Explain in detail, theoretical selection criteria used for injection molding machine. **7**
5. a) What do you mean by compression molding? Explain in detail with sketch, dielectric preheaters. **7**
b) Explain in detail, different equipments used in compression molding. **6**

OR

6. Explain in detail. **13**
- i) Sheet molding compound
 - ii) Dough molding compound
 - iii) Types of compression molding.

SECTION – B

7. a) What do you mean by Transfer molding? Explain with sketch plunger type transfer molding. 8
b) Compare transfer molding with compression molding. 5

OR

8. a) Explain with sketch Pot type transfer molding. 6
b) Explain in detail, advantages, disadvantages and utility of transfer molding. 7
9. Explain in detail. 13
i) Rotational molding & machines used in it
ii) Reaction injection molding.

OR

10. a) Explain with sketch process of lamination. 5
b) What do you mean by casting? Explain in detail, simple casting. 8
11. a) What do you mean by recycling? Explain in detail, primary recycling. 8
b) Explain in detail. Biodegradation. 6

OR

12. Explain in detail. 14
i) Secondary recycling.
ii) Collection and separation of waste plastics.
iii) Various size reduction equipments for recycling.

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