

B 2331

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Fourth Semester

Mechanical Engineering

ME 235 — PRODUCTION TECHNOLOGY

(Regulation 2001)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What do you mean by active clay?
2. What is the use of riser?
3. What do you mean by recrystallisation temperature?
4. Write short notes on Notching.
5. State the importance of polarity in D.C. Welding Operation.
6. Why fluxes are used in Brazing process?
7. State some of the limitations of explosive forming.
8. Write short notes on dynapack machine.
9. What is thermoplastics and how do they differ from thermosetting plastics?
10. Name at least five thermosetting plastics.

PART B — (5 × 16 = 80 marks)

11. (a) What do you mean by full mould process? What type of pattern is used in full moulding process. Explain and state the advantages of full moulding process.

Or

- (b) What do you mean by hot chamber die casting process? Explain the process with the help of a neat diagram and compare this process with cold chamber die casting process.

12. (a) Discuss forward and backward extrusion techniques and show the ram pressure characteristics when employed on both the types of extrusion.

Or

(b) What are the common forging defects how can you reduce them? Discuss.

13. (a) What is submerged arc welding process and where it serves best? Why? Explain.

Or

(b) Explain the process of electroslag welding process and also mention the applications and limitations.

14. (a) Explain the process of Electro hydraulic forming and give its salient characteristics.

Or

(b) Explain the process of Electromagnetic forming and give its salient characteristics.

15. (a) With the help of a neat diagram explain the process of Injection moulding of plastics.

Or

(b) Explain compression moulding of plastics with the help of a neat diagram.