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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2014

MECHANICAL ENGINEERING BRANCH

II Semester

ME 8252 MANUFACTURING TECHNOLOGY-I

(Regulation 2012)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. What are the functions of a riser?
2. What is a Misrun?
3. Why is it important to clean the surfaces to be welded?
4. Differentiate between Brazing and Soldering.
5. What is flash?
6. What is the difference between extrusion and drawing?
7. Why ironing is an important process?
8. Write short notes on: Peen forming.
9. What is the differentiate between plastics and elastomers?
10. Name three thermosetting plastics and state their uses.

Part – B (5 x 16 = 80 marks)

11. With the help of a neat diagram explain electron beam welding process. Why is most electron beam welding done in vacuum?
12. a) Name and explain the various patterns that are normally encountered in foundry practice.
(OR)
b) Describe the centrifugal casting process and to what configurations it is best suited?
13. a) Differentiate between hot working and cold working in metal forming. Bring out the advantages and disadvantages of these techniques.
(OR)
b) Explain the principle of rolling and with the help of diagrams explain the various types of rolling mills
14. a) Briefly explain the following
(i) Blanking (ii) Piercing
(iii) Notching (iv) Trimming
(Each 4 Marks)

(OR)

- b) With the help of a neat diagram explain Magnetic pulse forming. Mention its advantages and limitations.

15. a) Describe the following techniques
(i) Compression moulding
(ii) Transfer moulding

(Each 8 Marks)

(OR)

- b) Describe the following techniques
(i) Blow moulding
(ii) Film blowing