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16

B.E/B.Tech DEGREE EXAMINATIONS, APR/MAY 2012

Fourth Semester

Manufacturing Engineering

MF9251 –MANUFACTURING PROCESSES-II

Time: Three hours

Maximum:100 Marks

Answer ALL questions

PART A-(10 × 2 = 20 marks)

1. What is the ideal profile of a sprue?
2. What do you meant by core print?
3. What do you meant by Lateral Extrusion?
4. What do you meant by angle of bite?
5. How is the seam welding is an application of spot welding?
6. Make short note on Shielding gases used in welding.
7. List commonly used reinforcement materials in fabrication of MMC?
8. What are the characteristics of Thermoset plastics?
9. Which of these Material LBM is not effective. Why?
10. What do you understand from “self adjusting nature of ECM”?

PART B-(5 ×16 = 80 marks)

- 11.i) Briefly explain about Electron beam Machining with a neat sketch. (8)
- ii) Enumerate with neat sketch Explosive forming process. (8)

- 12.a.i) Explain operation of two types of induction furnces with necessary sketches. (8)
- ii) Explain the various types of pattern used in Mould making. (8)

Or

- b.i) Explain any one method of casting inspection (8)
- ii) Enumerate the steps in sequence for producing Shell moulding (8)

- 13 a. i) Discuss the advantages and limitations of hot working and cold working. (8)

ii) Explain with a neat sketch the process of wire drawing. (8)

Or

b.i) Explain with neat sketches various types of rolling stand arrangement. (8)

ii) Explain any one stretch forming method. (8)

14.a i) Explain the equipment of an Oxy-Acetylene gas welding. (8)

ii) Explain about the equipment and operation of GTAW process. (8)

Or

b. i) Explain the major ways to control the output of arc welding transformer. (8)

ii) Explain the Resistance welding process with a neat sketch. (8)

15.a.i) Explain how plastic sheets are manufactured by thermo forming method. (8)

ii) Explain how reinforced plastics are manufactured. (8)

Or

b.i) List out various types of moulding processes plastic processing. Explain any one. (8)

ii) Explain any one method of composite material manufacturing. (8)
