

Manufacturing Processes
(ME-103 E, June-2007)

Note: Attempt five questions taking at least one question from each unit.

UNIT-1

1. a) What is an accident? Explain in brief, causes of accident.
b) Explain various in brief, the safety precautions associated with the material handling.
c) Explain the various methods of safety, in brief.
2. a) Classify the plain carbon steel.
b) Write short note on grey cast iron.
c) Classify in brief, the manufacturing processes.

UNIT-2

3. a) What are the different casting defects? What are their remedies?
b) What are the different types of pattern used in foundry?
4. a) What are the main constituents of moulding sand? Explain in brief.
b) Explain in brief, the various types of moulding processes.
c) What is a core? How many types of cores are there? Explain with the help of neat sketch.

UNIT-3

5. a) Explain the difference between punching, blanking and piercing.
b) Discuss various shearing operations performed on sheet metal.
c) Define recrystallization temperature.
6. a) Explain in brief, the various methods of hot extrusion with neat sketches.
b) Describe the various types of plant layout and the situation in which each type is used.

UNIT-4

7. a) How can you specify a lathe?
b) Explain various types of operations performed on a drilling machine.
c) Show the nomenclature of a single point cutting tool.
8. a) Explain the mechanism of tool wear. What are its regions?
b) What is the difference between soldering and brazing?
c) Discuss the method of resistance welding. What are its advantages and disadvantages?