

## MP-DEC 2011- 1

Roll No. ....

Total No. of Pages : 2

**BT-1/D11**

**7514**

**Manufacturing Processes**

**Paper : ME-103 E**

Time : Three Hours]

[Maximum Marks : 100

**Note :-** Attempt **FIVE** questions in all, selecting at least **ONE** question from each Unit. All questions carry equal marks.

### UNIT-I

1. (a) What is an accident ? Explain in brief the causes of accident. 10  
(b) Write short notes on :
  - (i) Nodular Cast Iron
  - (ii) Malleable Cast Iron. 10
2. (a) Explain in detail the properties and application of the following :
  - (i) High Carbon Steel 5
  - (ii) High Speed Steel 10  
(b) Explain in brief the safety precautions associated with material handling. 5

### UNIT-II

3. (a) Explain the various properties of moulding sand. 10  
(b) Explain the different types of cores with the help of neat sketches. 10
4. Explain the various casting defects with causes and remedies. 20

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Contd.

## MP-DEC 2011- 2

### UNIT-III

5. (a) Explain in brief the various methods of hot extrusion with neat sketches. 10  
(b) Write short notes on :
  - (i) Cold bending
  - (ii) Stretch forming. 10
6. Describe the various types of plant layout and the situation in which each type is used. Also write the advantages of good plant layout. 20

### UNIT-IV

7. (a) Show nomenclature of a single point cutting tool with the help of neat sketch. 10  
(b) What is the difference between TIG and MIG Welding ? 10
8. (a) Explain various types of Chips with neat sketches. 10  
(b) Write short notes on : 10
  - (i) Arc crater
  - (ii) Electrode
  - (iii) Arc blow
  - (iv) Flux.

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