

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 10
 - (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

7514

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 10
 - (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.

7514

10000