

Roll No.

Total Pages : 2

8012

BT-I/D09

MANUFACTURING PROCESSES

Paper : ME-103(E)

(Theory)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt five questions in all, selecting at least one question from each unit.

UNIT-I

1. What is an 'Accident' ? What are the common sources of accidents ? How can these accidents be prevented ? 20
2. (a) What are Plain carbon steels ? How are they classified ? Give a few applications of different classes of plain carbon steels. 10
- (b) Write short notes on the following :
 - (i) Grey cast iron.
 - (ii) White cast iron.
 - (iii) Mottled cast iron.
 - (iv) Malleable cast iron.
 - (v) Chilled cast iron.2×5=10

UNIT-II

3. (a) What are the various properties of Moulding sand ? Explain. 10
- (b) What are the various Pattern allowances ? Explain. 10
4. (a) Explain Casting defects and their remedies. 20

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UNIT-III

5. (a) Explain with sketches the following operations :
- (i) Shearing.
 - (ii) Punching.
 - (iii) Blanking.
 - (iv) Forming.
 - (v) Bending. 2×5=10
- (b) Explain the Hot extrusion process. 10
6. (a) Explain the process of Rolling and principle of Hot rolling. 10
- (b) Explain the types of Plant layout, their advantages and disadvantages. 10

UNIT-IV

7. (a) Explain the working principle and construction features of Shaper machine tool. 10
- (b) Explain the different types of Chips in metal cutting. 10
8. (a) Explain Welding defects and their remedies. 10
- (b) Explain the following : 10
- (i) TIG welding.
 - (ii) MIG welding.