

Roll No.

Total Pages : 2

BT-1/D-19

31010

MANUFACTURING PROCESSES

Paper-ME-103E

Opt. : II

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt only *five* questions, selecting at least *one* question from each unit.

UNIT-I

1. (a) Give the broad classification of Manufacturing Processes. 10
(b) What is safety, explain various methods of safety. 10
2. (a) What is steel, explain effect of each of alloying element present in an alloy steel. 10
(b) Write short note on: High speed steel and cast iron. 10

UNIT-II

3. (a) Define Pattern and explain various types of pattern. 12
(b) Explain various parts of Gating System Design with neat sketches. 8
4. (a) What is core, explain various types of core. 10
(b) What is gate and give their classification in context with casting. 10

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UNIT-III

5. (a) Describe various sheet metal operations. 10
(b) Explain rolling and various types of rolling mill. 10
6. Describe Product and Process layout in detail with their advantages and limitations.

UNIT-IV

7. (a) Describe Welding Defects and their remedies. 10
(b) Explain the principle of resistance welding. 10
 8. (a) Explain oxyacetylene welding with different types of flame. 10
(b) Explain TIG Welding in detail. 10
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