

Roll No.

Printed Pages : 2

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BT-I / D-14

MANUFACTURING PROCESSES

Paper-ME-103 E, Opt. II

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions.

Unit-I

1. (a) What is meant by "industrial safety"? Why is it essential and how does it pay? 20
- (b) Discuss the concept of an accident. What are the types and common sources of accidents?
2. Discuss the general properties and applications of:
 - (i) Mild steel.
 - (ii) Cast iron. 20

Unit-II

3. Sketch a common gating system. Label it and explain the function of its various elements. 20
4. (a) What do you understand by a gating system? What are the basic features and requirements of a good gating system? 20
- (b) What is a riser? Give its importance.

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(2)

Unit-III

5. (a) What is cold-working of metals? Why are fcc metals more suitable for cold-working than the bcc metals? 20
- (b) Describe the main features of cold-working.
- (c) Name a few major cold-working operations. Give their application.
6. (a) What is hot extrusion? Give its application.
- (b) What different types of hot extrusion processes are used? <http://www.kuonline.in> 20

Unit-IV

7. List the different types of lathes available giving salient features of each. What are the uses of : (i) lead screw (ii) feed rod (iii) tail stock (iv) half nut (v) compound slide in a lathe? 20
8. Discuss the process TIG and MIG welding. Give their applications. 20

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