

Roll No.

Total Pages : 03

BT-2/M-19

32010

MANUFACTURING PROCESSES

ME-103E

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

Unit I

1. (a) What are the different types of Industrial Accidents ?
Write some common sources of such accidents. 10
- (b) Discuss in detail the various methods of safety and write a brief note on "First Aid". 10
2. Write notes on general properties and industrial applications of the following engineering materials :
 - (a) Medium Carbon Steel
 - (b) Cast Iron. 10×2

Unit II

3. (a) What are the various pattern making allowances ? 8
- (b) State and explain the different moulding methods for making moulds. 10
4. What are the different casting defects ? State their causes and remedies. Also write a note on "Fettling" in context with the casting process. 20

Unit III

5. Write notes on the following cold working operations :
 - (a) Blanking
 - (b) Piercing
 - (c) Forming 10
 - (d) Bending. 5×4
6. Write notes on the following hot working processes :
 - (a) Extrusion
 - (b) Wire Drawing. 10×2

Unit IV

7. (a) What is tool wear ? Explain Flank and Crater Wear. 5
- (b) What are the different types of chips formed in metal cutting ? 10
- (c) Write a note on use of coolants in machining. 5
8. Write notes on the following :
- (a) Resistance Welding
- (b) Soldering and Brazing. 10×2