

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

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Unit II

3. (a) What are the various pattern making allowances ?

8

- (b) State and explain the different moulding methods
for making moulds.

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

(d) Bending.

5×4

6. Write notes on the following hot working processes :

(a) Extrusion

(b) Wire Drawing.

10×2

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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

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