

Roll No.

Total Pages : 2

BT-2/M-20

32010

MANUFACTURING PROCESSES

Paper–ME-103 E

Opt. (I)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *five* questions in all, selecting at least *one* question from each unit. All questions carry equal marks.

UNIT–I

1. Enumerate the common sources of accident in an industry/workshop. Describe in brief the construction and use of different types of guards used for protection against the dangerous parts. 20
2. What are engineering materials? What are its general properties and applications? Explain different types of cast iron in detail. 20

UNIT–II

3. How do the grain size and shape affect the performance of moulding sand? Describe step-by-step procedure for casting using a permanent mould. 20
4. What are the main factors which are responsible for producing defects in the castings? How are the castings repaired? Explain. 20

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UNIT-III

5. Explain hot rolling and various type of rolling mills used in hot rolling. 20
6. What do you understand by plant layout? Explain different types of plant layout with advantages and limitations. 20

UNIT-IV

7. Explain the different processes to be performed on a Lathe machine tool. 20
 8. Explain the constructional features and working principle of MIG welding with neat diagram. 20
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