

Roll No. [Total No. of Pages : 3

ME-1850

B. Tech. (First Semester)

EXAMINATION, 2020

MANUFACTURING PROCESS

Time : Two Hours

Maximum Marks : 30

Note : Attempt questions from both Sections as directed.

Section—A

(Short Answer Type Questions)

Note : Attempt any *six* questions. Each question carries 2 marks. $6 \times 2 = 12$

1. Define the following :

(a) Brittleness

(b) Hardness

2. Explain any *one* method of making metal powder.
3. What are the core material properties required for a making a good core ?
4. What is the difference between shaper and planar machine ?
5. What is Extrusion process ? What are its types ?
6. What is the difference between hot working and cold working ?
7. What is steel ? Explain its different types in short.
8. Why is heat treatment of steel required ? Explain any *one* type of heat treatment process.
9. What is Brass ? Discuss its applications.

Section—B

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 9 marks. 2×9=18

1. Discuss Oxyacetylene Gas welding in detail.

[3]

2. Explain different types of forging processes in detail with a neat figure.
3. Why are the basic requirements for choosing a plant location ? Explain different types of plant layout.
4. Explain different zones of Cupola furnace with neat figure.