



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 199216

Roll No.

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B. Tech.

(SEM.II) THEORY EXAMINATION, 2014-15 MANUFACTURING PROCESSES

Time : 2 Hours]

[Total Marks : 50

Note: The question paper is divided into three sections. Attempt each section.

SECTION - A

1 Attempt the following short answer type $5 \times 2 = 10$ questions:

- (a) Define the term "Manufacturing".
- (b) Define the term "Resilience" and "formability".
- (c) Write down any two casting defect and its remedies.

- (d) Write down any two differences between Soldering and Brazing processes.
- (e) What is the main purpose of Heat Treatment?

SECTION - B

2 Attempt any three parts of the following: **5x3=15**

- (a) Explain Cupola furnace with diagram.
- (b) Differentiate between hot and cold working.
- (c) How does carbon content affect cast iron, wrought iron, and steel with reference to hardness and toughness?
- (d) Describe Electric — Arc welding. How it differs from Resistance welding?
- (e) Write short notes on:
 - (i) Types of Production.
 - (ii) Ceramics.

SECTION - C

3 Attempt **any five** questions: **5x5=25**

- (a) Give the Classification of Engineering material with examples.
- (b) Define the terms:
 - (i) Strength
 - (ii) Hardness
 - (iii) Malleability
 - (iv) Brittleness
 - (v) Creep
- (c) List various parts of lathe machine with its functions.
- (d) Describe the difference in operation between a Planer and a Shaper. Also list the Limitations of Shaper and Planer.
- (e) Describe the type of flames used during welding and their application.
- (f) Write short notes on:
 - (i) Galvanizing
 - (ii) Electroplating.