

**NME-101** 

(Following Paper ID and Rol PAPER ID: 199131	l No.	to be fi	lled in	your	Answer	Book)
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## B. Tech.

## (SEM. I) (ODD SEM.) THEORY EXAMINATION, 2014-15

## BASIC MANUFACTURING PROCESSES

Time: 2 Hours [Total Marks: 50]

1 Attempt any FOUR parts:

- Differentiate between ferrous and non-ferrous materials.
- Differentiate between extrusion and drawing (b) processes.
- What is tempering? Describe in brief, any one (c) type of tempering.
- Draw the sketch of a die and punch assembly. (d)
- What do you understand by grit, grade and (e) bond of a grinding wheel?
- Mention some important uses of rubber. (f) Mention any four of its important properties.

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Contd...

- 2 Attempt any TWO parts:

- Write Short notes on
  - Resilience (i)
  - (ii) Toughness
  - (iii) Weldability.
- Classify the various types of Carbon on Steels on basis of percentage (%) of Carbon and mention the properties and applications of each.
- (c) Write short notes on Bronze, their properties and uses.
- 3 Attempt any TWO parts: 6x2=12

- Compare hot working and cold working (a) processes indicating advantages and disadvantages of each.
- (b) Explain the defects in casting with their reasons. How these defects can be prevented?
- Explain briefly the following with suitable example:
  - Electroplating (i)
  - Galvanizing.
- Attempt any TWO parts:

6x2=12

- Make a sketch of a centre lathe and label its main parts.
- Explain the working principle of Planer type milling machine with a neat sketch.
- (c) Describe the principle of oxyacetylene gas welding. How many types of flames are used for welding?

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