Printed Pages: 2



NME-101

(Following Paper ID and Ro	_	to b	e fi	lled i	in yo	our A	Answ	er]	Book)
Roll No.						Ι	Ι		

B. Tech.

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

BASIC MANUFACTURING PROCESSES

Time: 2 Hours]

[Total Marks: 50

1 Attempt any FOUR parts:

- $3\frac{1}{2}\times4=14$
- (a) Differentiate between ferrous and non-ferrous materials.
- (b) Differentiate between extrusion and drawing processes.
- (c) What is tempering? Describe in brief, any one type of tempering.
- (d) Draw the sketch of a die and punch assembly.
- (e) What do you understand by grit, grade and bond of a grinding wheel?
- (f) Mention some important uses of rubber. Mention any four of its important properties.

2 Attempt any TWO parts:

6x2=12

- (a) Write Short notes on
 - (i) Resilience
 - (ii) Toughness
 - (iii) Weldability.
- (b) 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

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

4 Attempt any TWO parts :

6x2=12

- (a) Make a sketch of a centre lathe and label its main parts.
- (b) 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?