

Paper Code: ME-102

Roll No.

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**B.Tech.**

**(SEM I) ODD SEMESTER THEORY EXAMINATION, 20115-16  
MANUFACTURING PROCESS**

*Time: 2 Hours*

*Maximum Marks: 50*

**Note:** (i) Attempt all questions.  
(ii) Marks allotted to each question are indicated on right hand side.

- Q.1.** This question contains **six** parts. Attempt **any four** of the following. **3.5x4=14**
- (a) Write a note on the socio economic impact of materials.
  - (b) Write a brief note on classification of materials giving their uses.
  - (c) Discuss in brief Hardness and toughness?
  - (d) Write a brief note on fatigue and creep.
  - (e) List various types of Carbon steels giving percentage of carbon in them and their uses.
  - (f) What is Brass? Give its types and uses.
- Q.2.** Attempt any **two** of the following. All questions carry equal marks. **6x2=12**
- (a) Discuss various operations done in Forging processes. What do you understand by Hot working and cold working?
  - (b) Write a detail note on types of materials used for making Patterns. Why allowances are given on patterns.
  - (c) Write short notes on any two of the following: i. Functions of Risers. ii. Casting Defects. iii. Moulding Sands.
- Q.3.** Attempt any **two** questions of the following **6x2=12**
- (a) Draw a labeled diagram of Lathe Machine. Also list various operations performed on lathe.
  - (b) How Welding processes are classified? List various welding processes also explain Soldering in detail.
  - (c) Write short notes on any two of the following: i. Coating of electrodes. ii. Shaper and Planner iii. Difference between AC and DC welding.
- Q.4.** Attempt any **two** questions of the following **6x2=12**
- (a) What do you understand by Heat Treatment of Carbon Steels? Explain Annealing Process in detail.
  - (b) Write About various types of plant layout. What are its advantages?. What do you understand by Productivity?
  - (c) Write short notes on any two of the following: i. Wood its types and uses ii. Plastics iii. Electroplating.