

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

PAPER ID : 3529

Roll No.

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B.Tech.

(SEM. I) ODD SEMESTER THEORY

EXAMINATION 2013-14

BASIC MANUFACTURING PROCESSES

Time : 2 Hours

Total Marks : 50

Note :— Attempt all questions.

SECTION—A

1. Attempt all parts. All parts carry equal marks.

(10×1=10)

- Define Hardness of a Material.
- List the different types of Carbon Steel.
- List the composition of Bronze.
- Write two applications of Forging Process.
- Write two Casting defects.
- List two components made by Milling Machine.
- Define Case Hardening.
- List different types of production.
- Write the main reason for electroplating a material.
- List the types of Wood.

SECTION—B

2. Attempt any three parts. All parts carry equal marks.

(3×5=15)

- Comment on the role of materials in the development of a Civilization.

(b) Elaborate the following :

- Machinability
- Formability
- Weldability.

(c) Explain in detail :

- Alloy steels
- Cast iron.

(d) Elaborate different properties of Moulding Sand.

(e) With the help of a neat sketch, explain the Galvanizing Process.

SECTION—C

3. Part (a) is compulsory and carries 7 marks. Attempt any three more parts from the remaining (each part carries 6 marks).

(25)

- Write short notes on Annealing and Tempering; also list their advantages.
- With the help of a diagram, describe the basic working principle and important parts of a drilling machine.
- Describe electric arc welding and different equipments used in electric arc welding. List its advantages and disadvantages.
- Differentiate between hot working and cold working of metals. Mention two advantages and disadvantages of each of these techniques.
- What are the different allowances provided in making a pattern? Explain with suitable diagrams.
- Write short notes on :
 - Cement-Concrete
 - Rubber
 - Plastics.