

B. Tech Degree III Semester Examination, November 2008

SE 302 MANUFACTURING PROCESSES (2002 Scheme)

Time : 3 Hours

Maximum Marks : 100

(All questions carry equal marks)

- I. a. Explain briefly about the classification of steels
b. Explain the need for heat treatment of steels.

OR

- II. Write Notes on
a. Annealing
b. Normalising
c. Hardening
d. Tempering

- III. a. Explain in detail about gas welding.
b. Explain the term weldability.

OR

- IV. a. With neat sketch explain arc welding. Discuss about TIG and MIG welding.
b. List out the different types of welding defects.

- V. a. Write notes on different types of patterns.
b. What are the desirable properties of moulding sand.

OR

- VI. Explain the following
a. Die casting
b. Centrifugal casting

- VII. Write notes on the following:
a. Hot working and cold working.
b. Different types of rolling mills.

OR

- VIII. Explain the following:
a. High velocity forming
b. Magnetic pulse forming

- IX. a. With a neat sketch explain the nomenclature of a single point cutting tool.
b. With appropriate sketches how a lathe is specified.

OR

- X. Write notes on
a. Electro chemical machining
b. Electro discharge Machining

