

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B. Tech. (IE)(2008 & 2009 Batches) (Sem.-4)

B. Tech. (ME) (Sem.-4)

MANUFACTURING PROCESS-II

Subject Code : ME-210

Paper ID : [A0812]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY.**
- 2. Attempt any FOUR questions from SECTION-B.**
- 3. Attempt any TWO questions from SECTION-C.**

SECTION-A (10 × 2 = 20 Marks)

1. (a) Differentiate between Hot Forging and Cold Forging.
(b) List various types of products obtained by rolling process.
(c) What is the method of obtaining seamless tubes ?
(d) Sketch the schematic diagram of extrusion process ?
(e) Differentiate between forward and backward extrusion process.
(f) Explain the advantage of briquetting process.
(g) Discuss the composition of a CBN tool.
(h) What is the importance of chisel edge in a twist drill ?
(i) Briefly describe the process conventional milling.
(j) Give the nomenclature of grinding wheels.

SECTION-B (4 × 5 = 20 Marks)

2. Explain metal forming process used for making a headed nut.

3. What is the deep drawing process ? On what factors is the drawing force dependent.
4. What are the typical coating process for coated tools used ? Discuss the characteristics of various coated tools.
5. Explain the mechanism of differential indexing used in milling machines.
6. Discuss the process of hydrostatic wire extrusion.

SECTION-C

(2 × 10 = 20 Marks)

7. What is meant by the kniematic scheme of Lathe machines ? What are the common progression ratios used for gear box of Lathe machine. Discuss with suitable example.
8. Explain the steps involved in Powder Metallurgy. Give the advantages of this process.
9. What are the main variables of rolling process ? Give the various defects and their reasons.