

Roll No.

Total No. of Questions : 09]

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B. Tech. (Sem. – 4th)

MANUFACTURING PROCESSES - II

SUBJECT CODE : ME – 210 (2008 – 09 Batch)

Paper ID : [A0812]

Time : 03 Hours

Maximum 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

Q1)

(10 × 2 = 20)

- a) List the common rolling defects.
- b) What are the main variables in drawing operation?
- c) Differentiate between forward and backward extrusion?
- d) Differentiate between mechanical press and hydraulic press for forging operations.
- e) What is the role of strippers in press working tools?
- f) List the various angles of a single point cutting tool.
- g) What the materials used as coolant in metal cutting.
- h) List the various methods of Tapes turning on lathe machine.
- i) Differentiate between drilling and boring.
- j) What do you mean by bonding of grinding wheels?

Section - B

(4 × 5 = 20)

- Q2)** List five common forging defects and explain any two of them and their causes and remedies.
- Q3)** What is Bend radius and Bend length in Bending operation? Explain with neat sketch.
- Q4)** Discuss the process of Hydrostatic wire extrusion.
- Q5)** Giving the geometry of a twist drill, discuss the significance of point angle and chisel edge.
- Q6)** Differentiate between upmilling and downmilling giving their merits and demerits.

Section - C

(2 × 10 = 20)

- Q7)** What is the role of cutting speed and feed on the machining performance. Discuss with suitable examples.
- Q8)** Discuss the three different methods of producing metal powders with their merits and demerits.
- Q9)** Discuss the main variables in drawing operation and their influence on the drawing operation performance.

