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Roll No						

Total No. of Questions: 09

Total No. of Pages: 02

B. Tech. (ME) (Sem. 4) MANUFACTURING PROCESSES -II Subject Code: BTME-405 Paper ID: A1215

Time: 03 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. Section A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. Section B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- **3.** Section C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION A

- **1.** Define:
 - a) What are the advantages of using a collect chuck in lathe?
 - b) Write the applications of shapers.
 - c) How the different drilling machines are classified?
 - d) Why negative rake angle is normally employed for cutting hard and strong materials?
 - e) Name the factors that contribute to crater wear of tool.
 - f) Explain, how built-up edge on a cutting tool is undesirable?
 - g) Enumerate the essential requirements of a tool-material.
 - h) List the two major advantages and limitations of powder metallurgy process.
 - i) Define the Rolling process.
 - j) List the advantages and disadvantages of extrusion process.

SECTION B

- 2. Sketch and contrast the two milling methods of machining flat surfaces.
- **3.** Sketch and discuss a typical Internal Broach. Write the advantages and limitations of broaching process.
- 4. Discuss the various techniques used for the measurement temperature in the cutting zone.

- 5. Define "powder metallurgy" process. Discuss the various methods of powder manufacture.
- **6.** Compare extrusion and rolling processes.

SECTION C

- 7. Define the term "Machinability". Discuss the various types of chips produced during metal machining. Why are discontinuous chips preferred over continuous type?
- 8. Discuss the various types of cutting fluids. What are the main functions of cutting fluid?
- 9. With the help of neat sketches explain the following:
 - (a) Deep drawing process
 - (b) Explosive forming
 - (c) Open die forging

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