Roll No.						
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Total No. of Pages : 02

Total No. of Questions : 09

## B.Tech.(ME) (2011 Onwards) (Sem.-4) MANUFACTURING PROCESSES-II Subject Code : BTME-405

M.code : 59133

Time : 3 Hrs.

Max. Marks : 60

#### **INSTRUCTION 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. Answer briefly :
  - a) Define metal forming.
  - b) Write various applications of rolling.
  - c) Distinguish between piercing and blanking.
  - d) What is weant by shear on punch/die in press tool operations?
  - e) What is the significance of shear angle?
  - f) List the various cutting forces.
  - g) Write the composition of alloy carbon steel.
  - h) Distinguish between up milling and down milling.
  - i) Define significance of dressing of grinding wheels.
  - j) Define feed, and write its units.

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#### **SECTION-B**

- 2. Describe various rolling defects, causes and remedies.
- 3. Explain extrusion process in detail with neat sketch.
- 4. What do you mean by powder metallurgy? Write advantages and limitations of powder metallurgy.
- 5. Explain the geometry of single point cutting tool with help of neat sketch.
- 6. Describe the working of a broaching machine with suitable sketch.

### SECTION-C

7. Explain the following sheet metal forming operations with neat sketches :

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- a) Embossing,
- b) Squeezing,
- c) Coining,
- d) Bending
- e) Drawing.
- 8. a) Explain the following types of tool wear with neat sketches :
  - i) Crater wear
  - ii) Flank wear.
  - b) Briefly explain the desirable properties of a cutting tool material.
- 9. Briefly explain various lathe operations with neat sketches.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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