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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:

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

SECTION-A

Answer briefly :

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

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SECTION-B

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

SECTION-C

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