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Roll No						

Total No. of Pages : 02

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B.Tech.(AE) (2011 Onwards) (Sem.-3) MANUFACTURING PROCESSES Subject Code : BTAE-304 M.Code : 54112

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. What is allowance? How shrinkage allowance is influenced by choice of material?
- b. Define pattern. Name any two patterns.
- c. What is core?
- d. What is thermit welding?
- e. Name any two welding defects along with their causes and remedies.

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- f. Explain spinning process in brief.
- g. Name any two types of presses.
- h. Draw sketch of a single point cutting tool.
- i. What is indexing?
- j. Briefly explain the principle of electro chemical machining.



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SECTION-B

- 2. Describe the following sands :
 - a) Green sand
 - b) Dry sand
 - c) Loam sand
- 3. Explain with neat sketch electron beam welding.
- 4. With a neat sketch explain the process of rolling.
- 5. Discuss with sketch characteristics of conventional Up and Climb milling.
- 6. Discuss signature of single point cutting tool nomenclature with neat sketch.

SECTION-C

- Describe five different types of patterns and indicate the production circumstances in 7. itstRanker which each would be used.
- 8. Write short note on :
 - a) Submerged Arc Welding
 - b) Deep Drawing
 - c) Plastic Moulding Machines
 - d) Cutting Tool Material.
- 9. Explain in detail the principle of operation of laser beam machining with the help of neat sketch. Also write advantages, disadvantages and applications of the process.

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.