

Dr. Babasaheb Ambedkar Technological University Lonere-Raigad
Semester Examination: Dec 2018

Class: M. Tech. in Manufacturing Engineering

Semester: II

Subject: Metal Forming Processes (MMF201)

Time: 3 hours

Maximum Marks: 60

- Instructions:
1. Attempt ANY FIVE question.
 2. Assume suitable data wherever necessary and mention it clearly.
 3. Write your specific instruction, if any.
 4. Each question carries 12 marks.

- Q. 1 What do you understand by the rolling operations? Elaborate with various types of rolling operations. Describe the various rolling forces acting during the rolling operations. (12)
- Q. 2 What is meant by elastic behavior of the materials? Explain the importance of the metal forming processes with different metal forming processes. (12)
- Q. 3 What do you understand by work hardening? Elaborate: hot, cold and warm working processes. How will you differentiate slab, billet and bloom? (12)
- Q. 4 Draw slip lines for different stresses. What is the importance of extrusion and wire drawing processes in the MFP? (12)
- Q. 5 Explain few latest developments in the metal forming process and simple case study of the metal forming processes. (12)
- Q. 6 What do you meant by near net shape and net shape manufacturing? Explain with suitable examples. (12)

*** END ***