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M.Tech.(PE) (Sem.-1)

METAL FORMING

Subject Code: PE-503

Paper ID: [E0443]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. Explain Tresca maximum sheer strain energy criterion.
- 2. What is rolling? Explain different types of rolling mills.
- 3. Explain different types of defects in rolling, forging, extrusion, wire drawing and deep drawing.
- 4. Explain in detail various factors which affect rolling force.
- 5. Explain principles and mechanism of lubrication in metal forming processes.
- 6. Explain various methods of tube drawing.
- 7. What is true stress and true strain? Explain true stress strain curves.
- 8. How roll pressure for flat strip rolling in the leading and lagging zones is predicted, explain?

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