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Printed Pages : 2

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BT- 7 / M-14

**ADVANCED MANUFACTURING TECHNOLOGY**

**Paper – ME-419E (Opt. i)**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : Attempt only five questions, selecting at least one question from each unit.*

**Unit-I**

1. (a) What are various types of surface treatments ? Discuss Paint Coating and slushing also. 10  
(b) What are Surface Coating materials ? 10
2. (a) Explain 'Electro Forming Process. Give its advantages. 10  
(b) Discuss different types of composite materials. Also explain in brief the fabrication of laminates. 10

**Unit-II**

3. (a) How will you Check the Minor Diameter and Pitch Diameter of a Screw ? 15  
(b) Explain the various Types of Self-Opening Die Heads. 5
4. (a) Discuss about compression moulding and transfer mould methods for process of thermosetting plastics with their practical application. 15  
(b) Discuss the Blow Moulding with Neat Sketch. 5

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**Unit-III**

5. (a) What do you mean by Drawing Process ? Discuss various method of Tube or Pipe Drawing. 10  
(b) Differentiate between Hot working and Cold working Metal Forming process. 10
6. Explain the following processes in detail : 20  
(a) Rolling (b) Power rolling  
(c) Drawing (d) Extrusion

**Unit-IV**

7. (a) Explain the working of cold chamber die casting machine with the help of neat sketch. 10  
(b) What are various Design Consideration which you will take while die casting design ? 10
8. (a) Define the term 'Cost and 'Cost Estimating'. Why cost estimates are prepared ? 10  
(b) Explain the terms 'Material Cost', 'Labour Cost' and 'Expenses' used in cost estimating, giving a few examples of each. 10

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