

Roll No.

Total Pages : 02

BT-7/D-18

37175

ADVANCED MANUFACTURING
TECHNOLOGY

ME-429N

Group II

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

Unit I

1. Write short notes on the following processes :
 - (a) Surface Coatings 5
 - (b) Electroforming 5
 - (c) Adhesive bonds. 5
2. Describe with neat sketches various fabrication techniques used in making reinforced composites. 15

Unit II

3. Explain with neat sketches, the application of Injection moulding and compression moulding processes for processing plastics. 15

4. Discuss with neat sketches various thread measurement and inspection techniques. Describe advantages and limitations of each of these. 15

Unit III

5. (a) What do you mean by Drawing Process ? Discuss various methods of Tube or Pipe Drawing. 10
(b) Discuss various applications of Hot working and Cold working processes. 5
6. Describe the following processes :
 - (a) Open Die Forging 5
 - (b) Extrusion 5
 - (c) Rolling. 5

Unit IV

7. Describe the advantages and limitations of Die casting. Differentiate between Hot chamber and Cold chamber die casting machine. Explain the application of each with neat sketches. 15
8. Write short notes on the following :
 - (a) Various methods of cost estimation 8
 - (b) Elements of Costing and cost structure. 7