

Roll No.

Total Pages : 2

BT-7/D-17

37058

ADVANCE MANUFACTURING TECHNOLOGY

Paper : ME-419(E)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *five* questions in all. Select at least *one* question from each unit.

UNIT-I

1. (a) Explain with the help of example the surface cleaning and surface treatment. 10
(b) Explain briefly the Graphite mould coating and slushing. 10
2. Explain in detail :
 - (a) Agglomerated materials.
 - (b) Fabrication of Reinforced materials.
 - (c) Cutting and Joining of composites. 20

UNIT-II

3. (a) Define Polymers. Explain polymerization and addition of polymers. 12
(b) Explain briefly processing of Thermoplastic plastics. 8
4. Explain in detail :
 - (a) Die Threading and Tapping.

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(b) Machining of Plastic.

(c) Thread milling.

20

UNIT-III

5. Explain the following in brief :
 - (a) Power rolling.
 - (b) Open Die forging.
 - (c) Cold forming. 20
6. Explain the theoretical basis of metal forming and also describe the methods of analysis of manufacturing process. 20

UNIT-IV

7. (a) Explain the Die lubrication and coating. 7
(b) Explain the procedure of Die design. 8
(c) Recent trends in Die casting process. 5
8. Explain the following (Any *three*) :
 - (a) Cost structures.
 - (b) Estimation of Cost elements.
 - (c) Calculation of machining time with suitable example.
 - (d) Data requirements of Cost estimating. 20

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