

Roll No.

Total Pages : 03

BT-7/D-19

37175

ADVANCED MANUFACTURING
TECHNOLOGY
ME-429N

Time : Three Hours]

[Maximum Marks : 75

Note : There are eight questions in this paper. All questions carry 15 marks each. Attempt five questions in all, by selecting at least *one* from Section.

Section A

1. (a) Write a technical note of fabrication of reinforced composites and laminates. 7½
- (b) Explain in machining of plastics, unit heads and plastic cooling. Also discuss surface cleaning and surface treatments with regards to hot machining. 7½
2. (a) Describe in brief Agglomerated materials and surface coated materials. 8

- (b) Discuss in detail production of composite structures and fabrication of particulate composite structures. 7

Section B

3. (a) Define polymerization ? Also discuss in detail processing of thermoplastics. 8
- (b) Write short notes on Thread milling, Thread measurement and Inspection 7
4. Explain in detail Machining of plastics. Also discuss in detail Thread chasing, Thread rolling and Die threading. 15

Section C

5. Describe in brief open die forging, power rolling, drawing and extrusion with regards to metal forming. 15
6. (a) Classify metal forming processes. Also write the various methods for analysis manufacturing processes. 10
- (b) Write a technical note on warm working. 5

Section D

7. Explain in detail molten metal injection systems. Also define costing and discuss its various elements and methods of estimating. 15

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8. (a) Describe in brief design of casting dies. Also discuss die materials and die manufacture. 10
- (b) Write short notes of cold chamber machines and hot chamber machines. 5

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