Roll No.

Total Pages: 02

BT-7/M-20

37175

ADVANCED MANUFACTURING TECHNOLOGY ME-429N, Opt. I

Time: Three Hours] [Maximum Marks: 75

Note There are eight questions in this papēīvaAttempt questions in all, selecting and epartstion from each Section. All questions carry 15 mark.

Section A

- 1. (a) Write technical nontesurface coatings, paint coating and slushing. 71/2
 - (b) Explain in detail cutting and joining of composites.

 Also discuss fabrication of laminates. 7½
- 2. (a) Write the varioustypesof compositematerials.Also discussfabricateof particulatecomposite materials.8
 - (b) Discussin detailsurfacecoatingfor toolingand graphite mould coating.7

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Section B

- 3. (a) Write the various types of plastics. Also discuss in detail properties of plastics.8
 - (b) Write short notes on thread rolling, die threading and tapping.7
- **4.** Explain in detail Injection moulding. Also discuss in detail machining and casting of plastics.

Section C

- 5. Explainin detailOpendie forgingand powerrolling.Also discuss drawing and extrusion with regards to metal forming.15
- **6.** (a) Classify metal forming processes. Explain the effect of variables on metal forming processes.
 - (b) Write technical note on hot working5

Section D

- 7. Explain in detail die casting machines. Also describe in brief moltenmetalinjectionsystem and lot chamber machines.

 15
- 8. (a) What are the various steps in making cost estimate?
 Also write the chief factors in cost estimating.
 - (b) Write short note on cold chamber machines and die casting design.

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