

Roll No.

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NON-CONVENTIONAL MANUFACTURING

Paper-ME-420 E

Time allowed : 3 hours]

[Maximum marks : 100

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

Unit-I

1. (a) Classify unconventional machining processes. 15
(b) State the merits of rapid prototyping processes. 5
2. (a) Discuss the working principle of USM with the help of neat diagram(s). 10
(b) Describe the effects of various process parameters on metal removal rate in ultrasonic machining process. 10

Unit-II

3. How is metal removed in Electro-Chemical Machining ? Give theory of ECM iron is machined electrochemically. Also, obtain a suitable expression of tool feed rate in ECM. 20
4. (a) Explain the mechanics of EDM with the help of neat diagram(s). 15
(b) Discuss the effects of EDM on metal surfaces. 5

Unit-III

5. Draw a neat sketch of Water Jet Machining Process and explain the effects of various process parameters, on the performance of WJM. Also list some industrial applications of the process. 20

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[Turn over

(2)

6. Write short notes on following : 10×2
(i) Laser Beam Machining.
(ii) Plasma arc machining.

Unit-IV

7. Explain principles and process mechanism of 10×2
(i) SLA
(ii) LOM
8. Write detailed notes on the following rapid tooling processes :
(i) Epoxy Tooling
(ii) Spray Metal Tooling. 10×2

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