

Roll No.

Printed Pages : 2

BT-8 / D-16

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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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Table of Contents N3 Mechanical Engineering Previous Question Papers

1. Understanding the eBook N3 Mechanical Engineering Previous Question Papers
 - The Rise of Digital Reading N3 Mechanical Engineering Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying N3 Mechanical Engineering Previous Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an N3 Mechanical Engineering Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Mechanical Engineering Previous Question Papers
 - Personalized Recommendations
 - N3 Mechanical Engineering Previous Question Papers User Reviews and Ratings
 - N3 Mechanical Engineering Previous Question Papers and Bestseller Lists

5. Accessing N3 Mechanical Engineering Previous Question Papers Free and Paid eBooks
 - N3 Mechanical Engineering Previous Question Papers Public Domain eBooks
 - N3 Mechanical Engineering Previous Question Papers eBook Subscription Services
 - N3 Mechanical Engineering Previous Question Papers Budget-Friendly Options
6. Navigating N3 Mechanical Engineering Previous Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - N3 Mechanical Engineering Previous Question Papers Compatibility with Devices
 - N3 Mechanical Engineering Previous Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N3 Mechanical Engineering Previous Question Papers
 - Highlighting and Note-Taking N3 Mechanical Engineering Previous Question Papers
 - Interactive Elements N3 Mechanical Engineering Previous Question Papers
8. Staying Engaged with N3 Mechanical Engineering Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N3 Mechanical Engineering Previous Question Papers
9. Balancing eBooks and Physical Books N3 Mechanical Engineering Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N3 Mechanical Engineering Previous Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine N3 Mechanical Engineering Previous Question Papers
 - Setting Reading Goals N3 Mechanical Engineering Previous Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N3 Mechanical Engineering Previous Question Papers
 - Fact-Checking eBook Content of N3 Mechanical Engineering Previous Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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