

**Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020**  
**Non Traditional Machining**

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

**Module-1**

1. a. Explain non-traditional machining, by defining it and discuss about the need of non-traditional machining in detail. (08 Marks)  
 b. Discuss the comparison between traditional and non-traditional machining in detail. Classify the general NTM processes in detail. (08 Marks)

**OR**

2. a. Analyze the classification of non-traditional machining based on nature of energy employed in machining. (10 Marks)  
 b. Explain the specific advantages, limitations and applications of non-traditional machining. (06 Marks)

**Module-2**

3. a. Explain construction and working process of USM (Ultrasonic Machining) in detail by drawing a neat figure. Discuss the effect of amplitude and frequency and grain diameter. (10 Marks)  
 b. Describe application and limitations of USM. (06 Marks)

**OR**

4. a. Explain AJM (Abrasive Jet Machining) by drawing a neat schematic diagram. Describe "SOD" (Stand-Off Distance) and MRR (Material Removal Rate). (08 Marks)  
 b. Discuss WJM (Water Jet Machining) process in detail by drawing a neat schematic diagram. Describe Application, Advantages and Limitations. (08 Marks)

**Module-3**

5. a. Explain in detail for the ECM (Electro Chemical Machining). The element of ECM processes D.C. power and control system by drawing the adequate figures. (08 Marks)  
 b. Describe the chemistry of the ECM process and MRR by drawing a neat figure. (08 Marks)

**OR**

6. a. Discuss in CHM (Chemical Machining) the RESISTS (MASKANTS), Chemical Balance. (08 Marks)  
 b. Discuss about the Etchants, Applications and Advantages of CHM. (08 Marks)

**Module-4**

7. a. Explain EDM (Electrical Discharge Machining) principle, by drawing a neat figure and discuss in detail about DIELECTRIC FLUID. (08 Marks)  
 b. Discuss in detail about Pressure Flushing in EDM. Describe the Applications and Advantages of EDM. Explain Travelling Wire EDM. (08 Marks)

# 2014 Question Paper Fitting And Machining

**Emilie Sanchez**

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## **Table of Contents 2014 Question Paper Fitting And Machining**

1. Understanding the eBook 2014 Question Paper Fitting And Machining
  - The Rise of Digital Reading 2014 Question Paper Fitting And Machining
  - Advantages of eBooks Over Traditional Books
2. Identifying 2014 Question Paper Fitting And Machining
  - 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 2014 Question Paper Fitting And Machining
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 Question Paper Fitting And Machining
  - Personalized Recommendations
  - 2014 Question Paper Fitting And Machining User Reviews and Ratings
  - 2014 Question Paper Fitting And Machining and Bestseller Lists
5. Accessing 2014 Question Paper Fitting And Machining Free and Paid eBooks

- 2014 Question Paper Fitting And Machining Public Domain eBooks
- 2014 Question Paper Fitting And Machining eBook Subscription Services
- 2014 Question Paper Fitting And Machining Budget-Friendly Options

6. Navigating 2014 Question Paper Fitting And Machining eBook Formats

- ePUB, PDF, MOBI, and More
- 2014 Question Paper Fitting And Machining Compatibility with Devices
- 2014 Question Paper Fitting And Machining Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 2014 Question Paper Fitting And Machining
- Highlighting and Note-Taking 2014 Question Paper Fitting And Machining
- Interactive Elements 2014 Question Paper Fitting And Machining

8. Staying Engaged with 2014 Question Paper Fitting And Machining

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 2014 Question Paper Fitting And Machining

9. Balancing eBooks and Physical Books 2014 Question Paper Fitting And Machining

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 2014 Question Paper Fitting And Machining

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 2014 Question Paper Fitting And Machining

- Setting Reading Goals 2014 Question Paper Fitting And Machining
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 2014 Question Paper Fitting And Machining

- Fact-Checking eBook Content of 2014 Question Paper Fitting And Machining
- 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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