

Roll No. ....

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BT-8 / D-16

## POWER PLANT ENGINEERING

Paper-ME-404-E

Time allowed : 3 hours

(Maximum marks : 100)

Note : Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

### Unit-I

- (a) Differentiate between renewable and non-renewable sources of energy. 5  
(b) Explain the various methods by which energy can be obtained from waste. 15
- Discuss hydrograph and flow duration curve and their use for hydro plant. 20

### Unit-II

- With the help of neat diagrams, explain the two systems of pulverised fuel firing. 20
- What are the different systems of diesel engine power plant? How the performance of a diesel engine power plant can be evaluated? 20

### Unit-III

- What is regeneration? How it improves the thermal efficiency of a simple open cycle gas turbine plant? 20

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- Differentiate between uncontrolled and controlled chain reactions. Draw a neat diagram of a reactor and explain the functions of its various components. 20

### Unit-IV

- What is diversity factor? List its advantages in a power system. Prove that the load factor of a power system is improved by an increase in diversity of load. 20
- What are the principle factors involved in fixing of a tariff? Explain a two part tariff and give the economical basis for adopting such a tariff. 20

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# N3 Mechanical Engineering Past Year Paper

**Michal Rosen-Zvi**



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## **Table of Contents N3 Mechanical Engineering Past Year Paper**

1. Understanding the eBook N3 Mechanical Engineering Past Year Paper
  - The Rise of Digital Reading N3 Mechanical Engineering Past Year Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying N3 Mechanical Engineering Past Year Paper
  - 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 Past Year Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Mechanical Engineering Past Year Paper
  - Personalized Recommendations
  - N3 Mechanical Engineering Past Year Paper User Reviews and Ratings
  - N3 Mechanical Engineering Past Year Paper and Bestseller Lists
5. Accessing N3 Mechanical Engineering Past Year Paper Free and Paid eBooks
  - N3 Mechanical Engineering Past Year Paper Public Domain eBooks
  - N3 Mechanical Engineering Past Year Paper eBook Subscription Services
  - N3 Mechanical Engineering Past Year Paper Budget-Friendly Options

6. Navigating N3 Mechanical Engineering Past Year Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - N3 Mechanical Engineering Past Year Paper Compatibility with Devices
  - N3 Mechanical Engineering Past Year Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of N3 Mechanical Engineering Past Year Paper
  - Highlighting and Note-Taking N3 Mechanical Engineering Past Year Paper
  - Interactive Elements N3 Mechanical Engineering Past Year Paper
8. Staying Engaged with N3 Mechanical Engineering Past Year Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers N3 Mechanical Engineering Past Year Paper
9. Balancing eBooks and Physical Books N3 Mechanical Engineering Past Year Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection N3 Mechanical Engineering Past Year Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine N3 Mechanical Engineering Past Year Paper
  - Setting Reading Goals N3 Mechanical Engineering Past Year Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N3 Mechanical Engineering Past Year Paper
  - Fact-Checking eBook Content of N3 Mechanical Engineering Past Year Paper
  - 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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