

**First/Second Semester B.E. Degree Examination, Aug./Sept.2020**  
**Elements of Mechanical Engineering**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
 2. Use of steam tables is permitted.*

**Module-1**

- |   |   |            |
|---|---|------------|
| 1 | a. Differentiate renewable energy sources with non-renewable sources.                                 | (04 Marks) |
|   | b. Briefly explain Global Warming and Ozone depletion.  | (08 Marks) |
|   | c. Define Zeroth, 1 <sup>st</sup> law, 2 <sup>nd</sup> law and 3 <sup>rd</sup> law of thermodynamics. | (08 Marks) |

**OR**

- |   |   |            |
|---|---|------------|
| 2 | a. Define<br>(i) Internal energy<br>(ii) Enthalpy<br>(iii) Entropy        | (06 Marks) |
|   | b. Explain the formation of steam.  | (06 Marks) |
|   | c. Explain briefly the application of hydro, wind, nuclear and bio-fuels. | (08 Marks) |

**Module-2**

- |   |   |            |
|---|---|------------|
| 3 | a. Explain the working of Lancashire boiler with neat sketch. | (10 Marks) |
|   | b. With neat sketch, explain working of Francis turbine.      | (10 Marks) |

**OR**

- |   |  |            |
|---|--|------------|
| 4 | a. List and explain functions of any four boiler mountings.  | (06 Marks) |
|   | b. Explain the working of centrifugal pump with neat sketch. | (08 Marks) |
|   | c. Explain the phenomenon of priming and cavitation in pump. | (06 Marks) |

**Module-3**

- |   |   |            |
|---|---|------------|
| 5 | a. Explain the working of four-stroke diesel engine with neat sketch.   | (10 Marks) |
|   | b. A single cylinder two stroke petrol engine develops 7.5 KW at 2500 rpm. The mean effective pressure on the piston is 8 bar and mechanical efficiency is 80%. Calculate the diameter and stroke length of the cylinder if stroke to bore ratio is 1.5, also calculate the fuel consumption rate if the brake thermal efficiency is 28%. The calorific value of the fuel used is 43,900 KJ/kg. | (10 Marks) |

**OR**

- |   |  |            |
|---|--|------------|
| 6 | a. Define<br>(i) Refrigerating effect<br>(ii) Tonn of refrigeration<br>(iii) Ice making capacity<br>(iv) Coefficient of performance<br>(v) Unit of refrigeration | (10 Marks) |
|   | b. With a neat sketch, explain the working of vapour compression refrigeration.  | (10 Marks) |

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## **Table of Contents Eme011 Solved Paper**

1. Understanding the eBook Eme011 Solved Paper
  - The Rise of Digital Reading Eme011 Solved Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Eme011 Solved 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 Eme011 Solved Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Eme011 Solved Paper
  - Personalized Recommendations
  - Eme011 Solved Paper User Reviews and Ratings
  - Eme011 Solved Paper and Bestseller Lists
5. Accessing Eme011 Solved Paper Free and Paid eBooks
  - Eme011 Solved Paper Public Domain eBooks
  - Eme011 Solved Paper eBook Subscription Services
  - Eme011 Solved Paper Budget-Friendly Options

6. Navigating Eme011 Solved Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Eme011 Solved Paper Compatibility with Devices
  - Eme011 Solved Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Eme011 Solved Paper
  - Highlighting and Note-Taking Eme011 Solved Paper
  - Interactive Elements Eme011 Solved Paper
8. Staying Engaged with Eme011 Solved Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Eme011 Solved Paper
9. Balancing eBooks and Physical Books Eme011 Solved Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Eme011 Solved Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Eme011 Solved Paper
  - Setting Reading Goals Eme011 Solved Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Eme011 Solved Paper
  - Fact-Checking eBook Content of Eme011 Solved 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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