

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 st law, 2 nd law and 3 rd law of thermodynamics. | (08 Marks) |

OR

- | | | |
|---|---|------------|
| 2 | a. Define | |
| | (i) Internal energy | |
| | (ii) Enthalpy | |
| | (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 | |
| | (i) Refrigerating effect | |
| | (ii) Tonn of refrigeration | |
| | (iii) Ice making capacity | |
| | (iv) Coefficient of performance | |
| | (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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