

1. (a) Explain intensive and extensive properties with examples. 4
- (b) Give reasons why the Carnot cycle can not be considered as the practical power plant cycle even-though it's efficiency is maximum. 4
- (c) An inventor claims that a new heat cycle will develop 400 W for a heat supply of 35.5 kJ/min. Is his claim possible ? Given that source is at 200 K and sink is at 850 K. 4
- (d) 2 kg of steam is at 8 bar and 0.8 dry. Determine it's enthalpy and volume. 4
- (e) What is Cut-off ratio ? How does it affect the thermal efficiency of Diesel cycle ? 4

2. (a) Air at a temperature of 20 °C passes through a heat exchanger at a velocity of 40 m/s where it's temperature is raised to 820 °C. It then enters a turbine with same velocity of 40 m/s and expands till the temperature falls to 620 °C. On leaving the turbine, the air is taken at a velocity of 55 m/s to a nozzle where it expands until the temperature has fallen to 510 °C. If the air flow rate is 2.5 kg/s, calculate : 10
 - (i) rate of heat transfer to the air in the heat exchanger.
 - (ii) the power output from the turbine assuming no heat loss.
 - (iii) the velocity at exit from the nozzle, assuming no heat loss.
- (b) Define : 5
 - (i) Availability
 - (ii) Dead state
 - (iii) Irreversibility
 - (iv) Effectiveness.
- (c) For the same compression ratio and heat supplied compare Otto, Diesel and Dual cycle with the help of P-V and T-S diagram. 4

3. (a) State and prove Carnot theorem. 7
- (b) A Rankine cycle operates between the pressure 15 bar and 0.01 bar. The initial degree of superheat is 100 °C. Assuming isentropic efficiency of expansion 85%, calculate : 9
 - (i) Pump work
 - (ii) Actual turbine work
 - (iii) Thermal efficiency
- (c) What is Joule-Thompson coefficient ? What conclusions can be drawn from a given values of this coefficient ? 4

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1. Understanding the eBook Me1211 Thermodynamics 4 Previous Year Question Paper
 - The Rise of Digital Reading Me1211 Thermodynamics 4 Previous Year Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Me1211 Thermodynamics 4 Previous Year Question 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 Me1211 Thermodynamics 4 Previous Year Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Me1211 Thermodynamics 4 Previous Year Question Paper
 - Personalized Recommendations
 - Me1211 Thermodynamics 4 Previous Year Question Paper User Reviews and Ratings
 - Me1211 Thermodynamics 4 Previous Year Question Paper and Bestseller Lists
5. Accessing Me1211 Thermodynamics 4 Previous Year Question Paper Free and Paid eBooks

- Me1211 Thermodynamics 4 Previous Year Question Paper Public Domain eBooks
 - Me1211 Thermodynamics 4 Previous Year Question Paper eBook Subscription Services
 - Me1211 Thermodynamics 4 Previous Year Question Paper Budget-Friendly Options
6. Navigating Me1211 Thermodynamics 4 Previous Year Question Paper eBook Formats
- ePub, PDF, MOBI, and More
 - Me1211 Thermodynamics 4 Previous Year Question Paper Compatibility with Devices
 - Me1211 Thermodynamics 4 Previous Year Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Me1211 Thermodynamics 4 Previous Year Question Paper
 - Highlighting and Note-Taking Me1211 Thermodynamics 4 Previous Year Question Paper
 - Interactive Elements Me1211 Thermodynamics 4 Previous Year Question Paper
8. Staying Engaged with Me1211 Thermodynamics 4 Previous Year Question Paper
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Me1211 Thermodynamics 4 Previous Year Question Paper
9. Balancing eBooks and Physical Books Me1211 Thermodynamics 4 Previous Year Question Paper
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Me1211 Thermodynamics 4 Previous Year Question Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Me1211 Thermodynamics 4 Previous Year Question Paper
- Setting Reading Goals Me1211 Thermodynamics 4 Previous Year Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Me1211 Thermodynamics 4 Previous Year Question Paper
- Fact-Checking eBook Content of Me1211 Thermodynamics 4 Previous Year Question 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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