

Thermodynamics

S.E. : Sem. III [MECH/AUTO]

Time : 3 Hrs.]

Mumbai University Examination Paper : Dec. '18

[Marks : 80

- N.B.:** (1) Question No. 1 is compulsory.
(2) Attempt any THREE questions from question number 2 to 6.
(3) Assume suitable data if required and state it clearly.
(4) Use of Steam Table and Mollier chart is permitted.

1. Solve the following (any Four) [20]

- (a) State first law of thermodynamics for closed system. State its limitations.
- (b) Explain heat engine, heat pump and refrigerator with the help of neat sketch.
- (c) Explain free air delivered and volumetric efficiency. Write their equations also.
- (d) Define: available energy, dead state and irreversibility.
- (e) Explain working of Otto cycle with the help of PV and TS diagram. Write the equation for efficiency of the cycle.
- (f) Define types of steam and represent it on p-v diagram for water.

2. (a) 3 kg of air at a pressure of 150 kPa and temperature 360 K is compressed polytropically to 750 kPa according to law $PV^{1.25} = C$. The gas is then cooled to initial temperature at constant pressure. The air is then expanded at constant temperature till it reaches original pressure of 150 kPa. Draw the cycle on p-V diagram and determine net work and heat transfer. [12]

- (b) Prove that energy is property of the system. [8]

3. (a) In a steady flow device, the inlet and outlet conditions are given below. Determine the heat loss or gain by the system in kW. Fluid flow rate through the device is 2.1 kg/s and work output of the device is 750 kW. [8]

Property	Inlet	Outlet
Pressure (bar)	10	8.93
Specific enthalpy (kJ/kg)	2827	2341
Velocity (m/s)	20	120
Elevation (m)	3.2	0.5

- (b) Explain Kelvin-Planck & Clausius statement with the help of sketch. [6]
- (c) A heat engine receives 1000 kW of heat at constant temperature of 280°C. The heat is rejected at 5°C. The possible heats rejected are 840 kW, 492 kW and 300 kW. Classify the cycle into reversible, irreversible and impossible using Clausius Inequality theorem. [6]

4. (a) Define Critical Point and Triple point. Draw p-T diagram for water and show these points on it. [6]

- (b) Write four Maxwell relations. [4]
- (c) A house is maintained at a temperature of 20°C by means of a heat pump in winter by pumping heat from the atmosphere. Heat losses through the walls of the house are estimated at 0.65 kJ/K temperature different between inside of the house and outside atmosphere. [10]

Thermodynamics 3rd Sem Notes

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Table of Contents Thermodynamics 3rd Sem Notes

1. Understanding the eBook Thermodynamics 3rd Sem Notes
 - The Rise of Digital Reading Thermodynamics 3rd Sem Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics 3rd Sem Notes
 - 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 Thermodynamics 3rd Sem Notes
 - User-Friendly Interface

4. Exploring eBook Recommendations from Thermodynamics 3rd Sem Notes
 - Personalized Recommendations
 - Thermodynamics 3rd Sem Notes User Reviews and Ratings
 - Thermodynamics 3rd Sem Notes and Bestseller Lists
5. Accessing Thermodynamics 3rd Sem Notes Free and Paid eBooks
 - Thermodynamics 3rd Sem Notes Public Domain eBooks
 - Thermodynamics 3rd Sem Notes eBook Subscription Services
 - Thermodynamics 3rd Sem Notes Budget-Friendly Options
6. Navigating Thermodynamics 3rd Sem Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Thermodynamics 3rd Sem Notes Compatibility with Devices
 - Thermodynamics 3rd Sem Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thermodynamics 3rd Sem Notes
 - Highlighting and Note-Taking Thermodynamics 3rd Sem Notes
 - Interactive Elements Thermodynamics 3rd Sem Notes
8. Staying Engaged with Thermodynamics 3rd Sem Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermodynamics 3rd Sem Notes
9. Balancing eBooks and Physical Books Thermodynamics 3rd Sem Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermodynamics 3rd Sem Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Thermodynamics 3rd Sem Notes
 - Setting Reading Goals Thermodynamics 3rd Sem Notes
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Thermodynamics 3rd Sem Notes
 - Fact-Checking eBook Content of Thermodynamics 3rd Sem Notes
 - 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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