

## MODEL EXAMINATION

Department : Mechanical Engineering

Year/Sem : II/III

Subject Name: Thermal Engineering-I

Subject Code : 4020340

Date :

Marks : 100Marks

- (Note: (i) Answer all question in PART-A  
(ii) Answer division (A) or (B) of each question in PART-B  
(iii) Each question carries 3 marks in PART-A and 14 marks in PART-B)

### PART-A

1. What is the difference between isothermal process and adiabatic process
2. State the second law of thermodynamics
3. Draw the P-V and T-S diagram of otto cycle and diesel cycle and indicate the processes involved
4. Write down the general equation for (i) Turbine (ii) Condenser
5. Comparison between petrol and diesel engine.
6. Write short notes on (i) Connecting rod (ii) Piston (iii) Crank shaft
7. Determine the stoichiometric air required for complete combustion of 1 kg of coal whose analysis by mass is given below Carbon-78%; Hydrogen=3%; Oxygen- 3%; Sulphur -1%; Ash-10%; Moisture-5%
8. Define i) Mechanical efficiency ii) Brake thermal efficiency iii) Relative efficiency
9. Compare room air conditioner and central plant air conditioner
10. Differentiate vapour compression and vapour absorption refrigeration system

### PART-B

11. A) 0.5 kg of certain gas expands adiabatically. The initial pressure and temperature are 5 bar and  $185^{\circ}\text{C}$  respectively. The final pressure is 1.15 bar and temp falls by  $165^{\circ}\text{C}$  during the expansion. If the gas does 53 KJ of work, determine the two principle specific heat capacity of the gas and constant of the gas. (OR)  
B) A gas at a pressure of  $700\text{ KN/m}^2$  and expands from a volume of  $0.075\text{ m}^3$  to  $0.36\text{ m}^3$  according to the law  $PV^{1.2} = C$ . Determine (i) Final temperature ii) Workdone iii) Heat transferred. Take  $\gamma = \frac{C_p}{C_v} = 1.4$  and  $R = 0.29\text{ KJ/Kg.K}$ .
12. A) Derive an expression for air standard efficiency of otto cycle in terms of temperature. (OR)  
B) Brief about the engineering applications of study flow energy equation
13. A) i) Briefly explain with neat sketch 4 stroke petrol engine

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### **Table of Contents Tndte Thermal Engineering 1 Model Question Paper**

1. Understanding the eBook Tndte Thermal Engineering 1 Model Question Paper
  - The Rise of Digital Reading Tndte Thermal Engineering 1 Model Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Tndte Thermal Engineering 1 Model 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 Tndte Thermal Engineering 1 Model Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Tndte Thermal Engineering 1 Model Question Paper
  - Personalized Recommendations

- Tndte Thermal Engineering 1 Model Question Paper User Reviews and Ratings
- Tndte Thermal Engineering 1 Model Question Paper and Bestseller Lists
- 5. Accessing Tndte Thermal Engineering 1 Model Question Paper Free and Paid eBooks
  - Tndte Thermal Engineering 1 Model Question Paper Public Domain eBooks
  - Tndte Thermal Engineering 1 Model Question Paper eBook Subscription Services
  - Tndte Thermal Engineering 1 Model Question Paper Budget-Friendly Options
- 6. Navigating Tndte Thermal Engineering 1 Model Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Tndte Thermal Engineering 1 Model Question Paper Compatibility with Devices
  - Tndte Thermal Engineering 1 Model Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Tndte Thermal Engineering 1 Model Question Paper
  - Highlighting and Note-Taking Tndte Thermal Engineering 1 Model Question Paper
  - Interactive Elements Tndte Thermal Engineering 1 Model Question Paper
- 8. Staying Engaged with Tndte Thermal Engineering 1 Model Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Tndte Thermal Engineering 1 Model Question Paper
- 9. Balancing eBooks and Physical Books Tndte Thermal Engineering 1 Model Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Tndte Thermal Engineering 1 Model Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Tndte Thermal Engineering 1 Model Question Paper
  - Setting Reading Goals Tndte Thermal Engineering 1 Model Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Tndte Thermal Engineering 1 Model Question Paper
  - Fact-Checking eBook Content of Tndte Thermal Engineering 1 Model 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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