

THIRD SEMESTER B.TECH DEGREE EXAMINATION
(2013Scheme)

13.303 MECHANICAL TECHNOLOGY (P)

MODEL QUESTION PAPER

Time: 3Hours

Max. Marks: 100

Instructions: Use of Approved data books is permitted.

Part-A

Answer all questions

1. Define thermal conductivity. How does it vary with temperature?
2. Define thermal resistance. How does it vary from electrical resistance?
3. State Buckingham's Pi theorem. Mention its advantages.
4. Define absorptivity, reflectivity and transmissivity. Obtain the relation between them.
5. What are the different efficiencies of IC engines?
6. Differentiate between LMTD and NTU with reference to heat exchangers.
7. With the help of P-v diagram, state the advantages of intercooling in reciprocating air compressors.
8. What is meant by maximum specific work output with reference to Gas turbines?
9. What are refrigerants? How are they designated?
10. Define GSHE with the help of Psychrometric chart.

(2Marks × 10 = 20 Marks)

Part-B

Answer any one full question from each module

MODULE-I

11. a) Derive an expression for general heat conduction in Cartesian co-ordinate. What are the assumptions for the same?
b) The thermal conductivity of insulating material used over 20cm diameter pipe carrying hot gases varies as $k = 0.065(1 + 15 \times 10^{-4} T)$ W/m-°C where T is in °C. The pipe surface temperature is 250°C and insulation outer surface temperature is 60°C. Find the heat flow through the pipe and the temperature at mid -thickness of insulation.
12. a) Establish the functional relation $Nu = f(Re, Pr)$ for forced convection heat transfer with the help of dimensional analysis.

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Table of Contents Mechanical Technology Question Papers 2014 Grade 1only

1. Understanding the eBook Mechanical Technology Question Papers 2014 Grade 1only
 - The Rise of Digital Reading Mechanical Technology Question Papers 2014 Grade 1only
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Technology Question Papers 2014 Grade 1only
 - 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 Mechanical Technology Question Papers 2014 Grade 1only
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Technology Question Papers 2014 Grade 1only

- Personalized Recommendations
 - Mechanical Technology Question Papers 2014 Grade 1only User Reviews and Ratings
 - Mechanical Technology Question Papers 2014 Grade 1only and Bestseller Lists
5. Accessing Mechanical Technology Question Papers 2014 Grade 1only Free and Paid eBooks
 - Mechanical Technology Question Papers 2014 Grade 1only Public Domain eBooks
 - Mechanical Technology Question Papers 2014 Grade 1only eBook Subscription Services
 - Mechanical Technology Question Papers 2014 Grade 1only Budget-Friendly Options
 6. Navigating Mechanical Technology Question Papers 2014 Grade 1only eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Technology Question Papers 2014 Grade 1only Compatibility with Devices
 - Mechanical Technology Question Papers 2014 Grade 1only Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Technology Question Papers 2014 Grade 1only
 - Highlighting and Note-Taking Mechanical Technology Question Papers 2014 Grade 1only
 - Interactive Elements Mechanical Technology Question Papers 2014 Grade 1only
 8. Staying Engaged with Mechanical Technology Question Papers 2014 Grade 1only
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Technology Question Papers 2014 Grade 1only
 9. Balancing eBooks and Physical Books Mechanical Technology Question Papers 2014 Grade 1only
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Technology Question Papers 2014 Grade 1only
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mechanical Technology Question Papers 2014 Grade 1only
 - Setting Reading Goals Mechanical Technology Question Papers 2014 Grade 1only
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mechanical Technology Question Papers 2014 Grade 1only

- Fact-Checking eBook Content of Mechanical Technology Question Papers 2014 Grade 1only
- 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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