

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 $\times$ 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- $^{\circ}$ C where T is in $^{\circ}$ 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 Paper For 2014 Grade11

1. Understanding the eBook Mechanical Technology Question Paper For 2014 Grade11
 - The Rise of Digital Reading Mechanical Technology Question Paper For 2014 Grade11
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Technology Question Paper For 2014 Grade11
 - 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 Paper For 2014 Grade11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Technology Question Paper For 2014 Grade11
 - Personalized Recommendations
 - Mechanical Technology Question Paper For 2014 Grade11 User Reviews and Ratings
 - Mechanical Technology Question Paper For 2014 Grade11 and Bestseller Lists
5. Accessing Mechanical Technology Question Paper For 2014 Grade11 Free and Paid eBooks
 - Mechanical Technology Question Paper For 2014 Grade11 Public Domain eBooks
 - Mechanical Technology Question Paper For 2014 Grade11 eBook Subscription Services
 - Mechanical Technology Question Paper For 2014 Grade11 Budget-Friendly Options

6. Navigating Mechanical Technology Question Paper For 2014 Grade11 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Technology Question Paper For 2014 Grade11 Compatibility with Devices
 - Mechanical Technology Question Paper For 2014 Grade11 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Technology Question Paper For 2014 Grade11
 - Highlighting and Note-Taking Mechanical Technology Question Paper For 2014 Grade11
 - Interactive Elements Mechanical Technology Question Paper For 2014 Grade11
8. Staying Engaged with Mechanical Technology Question Paper For 2014 Grade11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Technology Question Paper For 2014 Grade11
9. Balancing eBooks and Physical Books Mechanical Technology Question Paper For 2014 Grade11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Technology Question Paper For 2014 Grade11
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Technology Question Paper For 2014 Grade11
 - Setting Reading Goals Mechanical Technology Question Paper For 2014 Grade11
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Technology Question Paper For 2014 Grade11
 - Fact-Checking eBook Content of Mechanical Technology Question Paper For 2014 Grade11
 - 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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