

Note:

- 1) Question no. 1 is compulsory.
- 2) Attempt any **three** questions out of the remaining **five** questions.
- 3) Clearly mention the assumptions made if any.
- 4) Use of Refrigerant table, P-h chart, Friction chart, Psychrometric chart and Steam table is permitted.

Q.1 Answer any Four of the following:

20

- a) Explain Standard VCR cycle with schematic, P-h & T-S diagrams.
- b) Explain the terms SHF, RSHF, GSHF and ERSHF.
- c) Define refrigerant and classify refrigerant giving examples of each.
- d) Define By-Pass Factor of a coil. Express it for heating & cooling coil. Also define efficiency of coil.
- e) Write short note on Thermal Comfort
- f) Define: Specific Humidity, Relative Humidity, DBT, WBT & DPT

Q.2 a) A boot strap cooling system of 10 TR Capacity is used in an aeroplane. The ambient air temperature and pressure are 20 °C & 0.85 bar respectively. The pressure of air increases from 0.85 bar to 1 bar due to ramming action of air. The pressure of air discharged from the main compressor is 3 bar. The discharge pressure of air from the auxiliary compressor is 4 bar. The isentropic efficiency of each compressor is 80%, while that of turbine is 85%. The heat exchanger effectiveness for both the heat exchanger is 60%. Assuming ramming action to be isentropic, the required cabin pressure of 0.9 bar and temperature of air leaving the cabin not more than 20 °C. Find: Power required to operate the system, COP of system.

12

b) Explain following Psychrometric Processes with neat sketch.

08

- (i) Heating & Humidification. (ii) Cooling & Dehumidification. (iii) Sensible Heating
(iv) Sensible Cooling

Q.3 a) A Vapour Compression Refrigeration System using R-12 works between -25°C and 40°C as evaporator & condenser temperature respectively. Using P-h chart, Determine;

1. COP.
2. Mass of Refrigerant per TR.
3. Piston Displacement per TR using Volumetric Efficiency = 83%.
4. Heat Rejected in the Condenser per TR.
5. Ideal COP.

12

b) Enlist the types of Air Cooling Systems. Explain Simple Air Cooling System with T-S diagram, processes involved in the cycle & application.

08

Mechanical Technology 2012grade 11 Exam Paper

Ying-Ying Zheng



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Table of Contents Mechanical Technology 2012grade 11 Exam Paper

1. Understanding the eBook Mechanical Technology 2012grade 11 Exam Paper
 - The Rise of Digital Reading Mechanical Technology 2012grade 11 Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Technology 2012grade 11 Exam 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 Mechanical Technology 2012grade 11 Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Technology 2012grade 11 Exam Paper
 - Personalized Recommendations
 - Mechanical Technology 2012grade 11 Exam Paper User Reviews and Ratings
 - Mechanical Technology 2012grade 11 Exam Paper and Bestseller Lists

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 - Mechanical Technology 2012grade 11 Exam Paper Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Mechanical Technology 2012grade 11 Exam Paper
 - Highlighting and Note-Taking Mechanical Technology 2012grade 11 Exam Paper
 - Interactive Elements Mechanical Technology 2012grade 11 Exam Paper
8. Staying Engaged with Mechanical Technology 2012grade 11 Exam Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Technology 2012grade 11 Exam Paper
9. Balancing eBooks and Physical Books Mechanical Technology 2012grade 11 Exam Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Technology 2012grade 11 Exam Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Technology 2012grade 11 Exam Paper
 - Setting Reading Goals Mechanical Technology 2012grade 11 Exam Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Technology 2012grade 11 Exam Paper
 - Fact-Checking eBook Content of Mechanical Technology 2012grade 11 Exam 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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