#### Paper / Subject Code: 89423 / Heating, Ventilation, Air Conditioning and Refrigeration

1T01436 - T.E. (Mechanical) Engineering)(SEM-VI)(Choice Base Credit Grading System.) ((R-20-21) (C Scheme) / 89423 - Heating. Ventilation, Air Conditioning and Refrigeration QP CODE: 10015040 DATE: 13/12/2022 (3 Hours)

HO:	

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

- 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
- 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.

008

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

[Total Marks 80]

(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;

- I. COP.
- Mass of Refrigerant per TR.
- Piston Displacement per TR using Volumetric Efficiency = 83%.
- Heat Rejected in the Condenser per TR.
- Ideal COP.

12

0.80

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

150.40

Page 1 of 2

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**L** Cohen

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pedagogical role in the classroom Connects fundamentals with practical applications to benefit students and practitioners alike Ensures relevance internationally with new material and updates from renowned authorities in the UK Australia and Canada Introduces the latest technologies and incorporates environmental issues to place the subject of mineral processing in a contemporary context addressing concerns of sustainability and cost effectiveness Provides new case studies examples and figures to bring a fresh perspective to the field Frontiers of Mechanical Engineering and Materials **Engineering** Wen Pei Sung, Jimmy Chih Ming Kao, Ran Chen, 2012-06-14 Selected peer reviewed papers from the 2012 International Conference on Frontiers of Mechanical Engineering and Materials Engineering MEME 2012 July 27 29 2012 Advances in Mechanical and Materials Technology Kannan Govindan, Harish Kumar, Sanjay Yadav, 2022-01-01 This book presents select papers from the International Conference on Energy Material Sciences and Mechanical Engineering EMSME 2020 The book covers the three core areas of energy material sciences and mechanical engineering The topics covered include non conventional energy resources energy harvesting polymers composites 2D materials systems engineering materials engineering micro machining renewable energy industrial engineering and additive manufacturing This book will be useful to researchers and professionals working in the areas of mechanical and industrial engineering materials applications and energy technology **Robotics in Education** Munir Merdan, Wilfried Lepuschitz, Gottfried Koppensteiner, Richard Balogh, David Obdržálek, 2019-08-06 This proceedings book gathers the latest achievements and trends in research and development in educational robotics from the 10th International Conference on Robotics in Education RiE held in Vienna Austria on April 10 12 2019 It offers valuable methodologies and tools for robotics in education that encourage learning in the fields of science technology engineering arts and mathematics STEAM through the design creation and programming of tangible artifacts for creating personally meaningful objects and addressing real world societal needs It also discusses the introduction of technologies ranging from robotics platforms to programming environments and languages and presents extensive evaluations that highlight the impact of robotics on students interests and competence development The approaches included cover the entire educative range from the elementary school to the university level in both formal **Daily Graphic** Ransford Tetteh, 2011-02-23 and informal settings Encyclopedia of Iron, Steel, and Their Alloys (Online Version) Rafael Colás, George E. Totten, 2016-01-06 The first of many important works featured in CRC Press Metals and Alloys Encyclopedia Collection the Encyclopedia of Iron Steel and Their Alloys covers all the fundamental theoretical and application related aspects of the metallurgical science engineering and technology of iron steel and their alloys This Five Volume Set addresses topics such as extractive metallurgy powder metallurgy and processing physical metallurgy production engineering corrosion engineering thermal processing metalworking welding iron and steelmaking heat treating rolling casting hot and cold forming surface finishing and coating crystallography metallography computational metallurgy metal matrix composites intermetallics nano and micro structured metals and alloys nano and micro alloying effects special steels

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characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner Re-engineering Manufacturing for Sustainability Andrew Y. C. Nee,Bin Song,Soh-Khim Ong,2013-04-08 This edited volume presents the proceedings of the 20th CIRP LCE Conference which cover various areas in life cycle engineering such as life cycle design end of life management manufacturing processes manufacturing systems methods and tools for sustainability social sustainability supply chain management remanufacturing etc

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- 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
- 5. Accessing Mechanical Technology 2012grade 11 Exam Paper Free and Paid eBooks
  - Mechanical Technology 2012grade 11 Exam Paper Public Domain eBooks
  - Mechanical Technology 2012grade 11 Exam Paper eBook Subscription Services
  - Mechanical Technology 2012grade 11 Exam Paper Budget-Friendly Options

- 6. Navigating Mechanical Technology 2012grade 11 Exam Paper eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mechanical Technology 2012grade 11 Exam Paper Compatibility with Devices
  - Mechanical Technology 2012grade 11 Exam Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - 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

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