#### 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

0.8

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

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# **Mechanical Technology 2012grade 11 Exam Paper**

Thirumalaisamy P. Velavancorresponding

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The Complete Book of Colleges, 2012 Edition Princeton Review (Firm), 2011-08-15 Presents a comprehensive guide to 1 571 colleges and universities and includes information on academic programs admissions requirements tuition costs housing financial aid campus life organizations athletic programs and student services AsiaSim 2012 - Part III Tianyuan Xiao, Lin Zhang, Minrui Fei, 2012-10-06 The Three Volume Set CCIS 323 324 325 AsiaSim 2012 together with the Two Volume Set CCIS 326 327 ICSC 2012 constitutes the refereed proceedings of the Asia Simulation Conference AsiaSim 2012 and the International Conference on System Simulation ICSC 2012 held in Shanghai China in October 2012 The 267 revised full papers presented were carefully reviewed and selected from 906 submissions. The papers are organized in topical sections on modeling theory and technology modeling and simulation technology on synthesized environment and virtual reality environment pervasive computing and simulation technology embedded computing and simulation technology verification validation and accreditation technology networked modeling and simulation technology modeling and simulation technology of continuous system discrete system hybrid system and intelligent system high performance computing and simulation technology cloud simulation technology modeling and simulation technology of complex system and open complex huge system simulation based acquisition and virtual prototyping engineering technology simulator simulation language and intelligent simulation system parallel and distributed software CAD CAE CAM CIMS VP VM and VR visualization computing and simulation applications in science and engineering computing and simulation applications in management society and economics computing and simulation applications in life and biomedical engineering computing and simulation applications in energy and environment computing and simulation applications in education computing and simulation applications in military field computing and simulation applications in medical field Wills' Mineral Processing Technology Barry A. Wills, James Finch, 2015-09-01 Wills Mineral Processing Technology An Introduction to the Practical Aspects of Ore Treatment and Mineral Recovery has been the definitive reference for the mineral processing industry for over thirty years This industry standard reference provides practicing engineers and students of mineral processing metallurgy and mining with practical information on all the common techniques used in modern processing installations Each chapter is dedicated to a major processing procedure from underlying principles and technologies to the latest developments in strategies and equipment for processing increasingly complex refractory ores The eighth edition of this classic reference enhances coverage of practical applications via the inclusion of new material focused on meeting the pressing demand for ever greater operational efficiency while addressing the pivotal challenges of waste disposal and environmental remediation Advances in automated mineralogy and analysis and high pressure grinding rolls are given dedicated coverage The new edition also contains more detailed discussions of comminution efficiency classification modeling flocculation reagents liquid solid separations and beneficiation of phosphate and industrial materials Finally the addition of new examples and solved problems further facilitates the book s

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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thickness 0 15 3 0 mm width 900 1500 mm with tolerances according to en10143 or by special agreement slit strip from 10 mm sheets  $1000\ 1500\ x\ 2000\ 6000\ x$  mm coil or

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