

CBGS SCHEME

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21EME15/25

First/Second Semester B.E. Degree Examination, July/August 2022 Elements of Mechanical Engineering

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Use of steam tables is permitted.

Module-1

1. a. Discuss the various emerging trends and technologies in different sectors and their contribution to GDP. (06 Marks)
b. Draw T-h diagram of steam formation and label the various properties of steam on it. (06 Marks)
c. Describe the energy conversion from hydel energy into electrical energy with the aid of suitable sketch. (08 Marks)

OR

2. a. Explain the working of centrifugal pump with a sketch. (08 Marks)
b. Find the enthalpy of one kg of steam at 12 bar when
i) Steam is 22% wet
ii) Steam is dry saturated
iii) Superheated to 250°C
Assume specific heat of superheated steam as 2.25 kJ/kg K. the values of steam properties at 12 bar are $t_s = 188^\circ\text{C}$, $h_f = 798.43$ kJ/kg, $h_g = 1984.3$ kJ/kg. (06 Marks)
c. Briefly explain the working of tidal power plant and mention its limitations. (06 Marks)

Module-2

3. a. Explain the non ferrous metals with their applications. (06 Marks)
b. Distinguish between Soldering, Brazing and Welding. (06 Marks)
c. Compare TIG and MIG welding with sketches. (08 Marks)

OR

4. a. Why is cooling necessary for electronic devices? Discuss Active, Passive and Hybrid cooling. (06 Marks)
b. How are composites classified? Mention their applications. (06 Marks)
c. What are smart materials and shape memory alloys? Explain. (08 Marks)

Module-3

5. a. Draw a neat sketch of internal combustion engine and label the components. (06 Marks)
b. Explain the concept of electric vehicle with components. (08 Marks)
c. List the desirable properties of good refrigerant. (06 Marks)

OR

6. a. Explain the working of window type air conditioning system with neat sketch. (10 Marks)
b. The following observations were made during a test on a two stroke cycle oil engine. Bore = 200mm, stroke = 250mm, Speed = 270 rpm, Brake drum diameter = 1200mm, Net brake load = 450N, mean effective pressure = 2.8bar, oil consumption = 3.6 kg/hr, calorific value of oil = 41868 kJ/kg. Determine IP, BP mechanical efficiency, indicated thermal efficiency and brake thermal efficiency. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written (eg. $4 \times 6 = 50$) will be treated as malpractice.

Question Papers Of Mechanical Engineering 2009 Scheme

Yi-Tong Ma



Question Papers Of Mechanical Engineering 2009 Scheme:

Principles of Mechanical Engineering (MDU) Sadhu Singh, 2010 For the students of B E B Tech of Maharshi Dayanand University MDU Rohtak and Kurukshetra University Kurukshetra The book contains a large no of solved and unsolved problems This has been supplemented with Multichoice questions review questions true and false and fill in the blanks type of questions *SSC JE Mechanical Engineering (Paper 1) | 8 Full-length Mock Tests + 3 Previous Year Papers (2200+ Solved Questions)* EduGorilla Prep Experts, 2022-08-03 Best Selling Book for SSC JE Mechanical Engineering Paper 1 with objective type questions as per the latest syllabus given by the SSC Compare your performance with other students using Smart Answer Sheets in EduGorilla's SSC JE Mechanical Engineering Paper 1 Practice Kit SSC JE Mechanical Engineering Paper 1 Preparation Kit comes with 11 Tests 8 Full length Mock Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 14X SSC JE Mechanical Engineering Paper 1 Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts

Pratiyogita Darpan , 2009-03 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine Pratiyogita Darpan , 2009-09 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine **Proceedings of**

Mechanical Engineering Research Day 2017 Mohd Fadzli Bin Abdollah, Tee Boon Tuan, Mohd Azli Salim, Mohd Zaid Akop, Rainah Ismail, Haslinda Musa, 2017-05-29 This e book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 MERD 17 Melaka Malaysia on 30 March 2017 Four-Year Colleges 2009 Peterson's, 2008-06 Complete and up to date information on academics faculty research tuition sports and campus life at four year colleges in the U S and Canada **World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany** Olaf Dössel, Wolfgang C. Schlegel, 2010-01-04 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world's leading forum for presenting the results of current scientific work in health related physics and technologies to an

international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with significant potential to open new options in diagnostics and therapeutics it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output Covering key aspects such as information and communication technologies micro and nanosystems optics and biotechnology the congress will serve as an inter and multidisciplinary platform that brings together people from basic research R D industry and medical application to discuss these issues As a major event for science medicine and technology the congress provides a comprehensive overview and in depth first hand information on new developments advanced technologies and current and future applications With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich

Olaf D ssel Congress President Wolfgang C **Knowledge Discovery, Knowledge Engineering and Knowledge Management** Ana Fred,Jan L. G. Dietz,Kecheng Liu,Joaquim Filipe,2011-02-04 This book constitutes the thoroughly refereed post conference proceedings of the First International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2009 held in Funchal Madeira Portugal in October 2009 This book includes revised and extended versions of a strict selection of the best papers presented at the conference 27 revised full papers together with 3 invited lectures were carefully reviewed and selected from 369 submissions According to the three covered conferences KDIR 2009 KEOD 2009 and KMIS 2009 the papers are organized in topical sections on on knowledge discovery and information retrieval knowledge engineering and ontology development and on knowledge management and information sharing **Proceedings of the ASME Conference on Smart Materials, Adaptive Structures, and Intelligent Systems** ,2009

CAD/CAM, Robotics and Factories of the Future Dipak Kumar Mandal,Chanan Singh Syan,2016-01-05 This volume is based on the proceedings of the 28th International Conference on CAD CAM Robotics and Factories of the Future This book specially focuses on the positive changes made in the field of robotics CAD CAM and future outlook for emerging manufacturing units Some of the important topics discussed in the conference are product development and sustainability modeling and simulation automation robotics and handling systems supply chain management and logistics advanced manufacturing processes human aspects in engineering activities emerging scenarios in engineering education and training The contents of this set of proceedings will prove useful to both researchers and practitioners *Utility-scale Solar Power* United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Energy and Environment,2008 *OECD Economic Surveys: Switzerland 2011* OECD,2012-01-24 OECD s 2012 Economic Survey of Switzerland examines recent economic developments policy and prospects making the tax system less distortive reducing risks in the financial system and reducing greenhouse gas emissions as well as making a series of **Joint Volumes of**

Papers Presented to the Legislative Council and Legislative Assembly New South Wales. Parliament, 1925 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931

Technology Transfer in a Global Economy David B. Audretsch, Erik E. Lehmann, Albert N. Link, Alexander Starnecker, 2012-12-16 Technology transfer the process of sharing and disseminating knowledge skills scientific discoveries production methods and other innovations among universities government agencies private firms and other institutions is one of the major challenges of societies operating in the global economy This volume offers state of the art insights on the dynamics of technology transfer emerging from the annual meeting of the Technology Transfer Society in 2011 in Augsburg Germany It showcases theoretical and empirical analyses from participants across the technology transfer spectrum representing academic educational policymaking and commercial perspectives The volume features case studies of industries and institutions in Europe the United States and Australasia explored through a variety of methodological approaches and providing unique contributions to our understanding of how and why technology transfer is shaped and affected by different institutional settings with implications for policy and business decision making *Examining Federal Vehicle Technology Research and Development Programs* United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Energy and Environment, 2009 *Handbook of Research on Educational Communications and Technology* J. Michael Spector, M. David Merrill, Jan Elen, M. J. Bishop, 2013-07-03 The 4th edition of the Handbook of Research on Educational Communications and Technology expands upon the previous 3 versions providing a comprehensive update on research pertaining to new and emerging educational technologies Chapters that are no longer pertinent have been eliminated in this edition with most chapters being completely rewritten expanded and updated Additionally new chapters pertaining to research methodologies in educational technology have been added due to expressed reader interest Each chapter now contains an extensive literature review documenting and explaining the most recent outstanding research including major findings and methodologies employed The Handbook authors continue to be international leaders in their respective fields the list is cross disciplinary by design and great effort was taken to invite authors outside of the traditional instructional design and technology community **Aviation and the Emerging Use of Biofuels** United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Space and Aeronautics, 2009 **Speed & Scale** John Doerr, 2021-11-09 If you care about climate change John Doerr's new book Speed Scale offers concrete steps that we can all take to make a difference Barack Obama With clear eyed realism and an engineer's precision Doerr lays out the practical actions global ambitions and economic investments we need to avert climate catastrophe Guided by real world solutions Speed Scale features unprecedented firsthand accounts from climate leaders such as Laurene Powell Jobs Christiana Figueres Al Gore Mary Barra John Kerry and dozens of other intrepid policymakers innovators and scientists In Speed Scale Doerr presents a compelling 10 step plan to cut greenhouse gas emissions to net zero by 2050 the global goal

we need to reach to ensure a livable Earth for generations to come From electrifying our energy grid to fixing our global food supply chain to capturing carbon from the air Speed Scale contains practical solutions for policymakers and entrepreneurs alike As the world confronts an urgent climate crisis Doerr reminds us that it is also the greatest economic opportunity of our lifetimes Whether you re a climate scientist or someone striving to make a difference in your local community this book will help you to activate the sustainable solutions the world urgently needs Praise for Speed Scale Everybody should get Speed Scale by John Doerr Meryl Streep A practical guide for participation in decarbonizing the global economy a task as challenging as it is urgent Christiana Figueres

Tips on Getting an Academic Position Z. J. Pei,2009-09-14 This book contains tips on getting an academic position They are from both new assistant professors who have recently got their academic positions and senior faculty members including dean and search committee chair who are responsible of recruiting new professors

Teaching STEM in the Secondary School Frank Banks,David Barlex,2020-12-29 This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding achievement and motivation By reaching outside their own classroom teachers can collaborate across STEM subjects to enrich learning and help students relate school science technology and maths to the wider world Packed with ideas and practical details for teachers of STEM subjects the new revised edition of this book considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students describes and evaluates different curriculum models for STEM suggests ways in which a critical approach to the pedagogy of the classroom laboratory and workshop can support and encourage all pupils to engage fully in STEM addresses the practicalities of introducing organising and sustaining STEM related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long term This new revised edition is essential reading for trainee and practising teachers those engaged in further professional development and all who wish to make the learning of science technology engineering and mathematics an interesting motivating and exciting experience for their students

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Table of Contents Question Papers Of Mechanical Engineering 2009 Scheme

1. Understanding the eBook Question Papers Of Mechanical Engineering 2009 Scheme
 - The Rise of Digital Reading Question Papers Of Mechanical Engineering 2009 Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Papers Of Mechanical Engineering 2009 Scheme
 - 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 eBook Question Papers Of Mechanical Engineering 2009 Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Papers Of Mechanical Engineering 2009 Scheme
 - Personalized Recommendations
 - Question Papers Of Mechanical Engineering 2009 Scheme User Reviews and Ratings
 - Question Papers Of Mechanical Engineering 2009 Scheme and Bestseller Lists

5. Accessing Question Papers Of Mechanical Engineering 2009 Scheme Free and Paid eBooks
 - Question Papers Of Mechanical Engineering 2009 Scheme Public Domain eBooks
 - Question Papers Of Mechanical Engineering 2009 Scheme eBook Subscription Services
 - Question Papers Of Mechanical Engineering 2009 Scheme Budget-Friendly Options
6. Navigating Question Papers Of Mechanical Engineering 2009 Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Question Papers Of Mechanical Engineering 2009 Scheme Compatibility with Devices
 - Question Papers Of Mechanical Engineering 2009 Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Question Papers Of Mechanical Engineering 2009 Scheme
 - Highlighting and Note-Taking Question Papers Of Mechanical Engineering 2009 Scheme
 - Interactive Elements Question Papers Of Mechanical Engineering 2009 Scheme
8. Staying Engaged with Question Papers Of Mechanical Engineering 2009 Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Papers Of Mechanical Engineering 2009 Scheme
9. Balancing eBooks and Physical Books Question Papers Of Mechanical Engineering 2009 Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Papers Of Mechanical Engineering 2009 Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Question Papers Of Mechanical Engineering 2009 Scheme
 - Setting Reading Goals Question Papers Of Mechanical Engineering 2009 Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Question Papers Of Mechanical Engineering 2009 Scheme
 - Fact-Checking eBook Content of Question Papers Of Mechanical Engineering 2009 Scheme
 - 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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