

CBCS Scheme

USN

15ME562

15ME562

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018

Energy and Environment

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing one full question from each module.***Module-1**

1. a. Explain briefly world energy scenario with respect to production and consumption using relevant statistics. (08 Marks)
- b. Elaborate the effect of various social and environmental aspects on India's energy development. (08 Marks)

OR

2. a. Discuss briefly the various key energy trends in India. (12 Marks)
- b. List and explain various forms of energy in a brief manner. (04 Marks)

Module-2

3. a. List the different types of thermal energy storage systems. Explain any two of them. (08 Marks)
- b. Elaborate the different phases involved in detailed energy audit methodology. (08 Marks)

OR

4. a. A power plant of 210 MW installed capacity has the following particulars:
Capital cost = Rs.18000/KW installed
Interest and depreciation = 12%
Annual load factor = 60%
Annual capacity factor = 54%
Annual running charges = Rs.2 × 10⁶
Energy consumed by auxiliaries = 6%
Calculate the cost of power generation per kWh. (10 Marks)
- b. What are the general characteristics of capital investments? (06 Marks)

Module-3

5. a. Identify the need for public awareness on environment management. Discuss the effort of important institutions and people in environment management. (10 Marks)
- b. Discuss how carbon is utilized in the ecosystem with the help of a simple flow diagram. (06 Marks)

OR

6. a. Define ecosystem. Explain the different types of forest ecosystems in India. (10 Marks)
- b. Explain the following terms:
i) Food chain
ii) Food web
iii) Ecological pyramid (06 Marks)

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S. O. Pillai, Sivakami



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Engineering Mathematics-II A. Ganeshi, G. Balasubramanian, 2009 About the Book This book Engineering Mathematics II is designed as a self contained comprehensive classroom text for the second semester B E Classes of Visveswaraiah Technological University as per the Revised new Syllabus The topics included are Differential Calculus Integral Calculus and Vector Integration Differential Equations and Laplace Transforms The book is written in a simple way and is accompanied with explanatory figures All this make the students enjoy the subject while they learn Inclusion of selected exercises and problems make the book educational in nature It should *Textbook of Elements of Mechanical Engineering* S. Trymbaka Murthy, 2010 This book is essential reading for the students of Mechanical Engineering It is a rich blend of theoretical concepts and neat illustrations with footnotes and a list of formulae for ready reference Key Features Step by Step approach to help students **Textbook of Mechanics of Materials** Prakash M. N. Shesha, Suresh G. S., 2011-09 This textbook covers the fundamental principles and applications and discusses topics such as simple and compound stresses bending moments shear forces stresses in beams deflection in beams torsion of shafts thick and thin cylinders and columns and struts The Drifting Stones Anis Bari, Nilay Bipul, 2023-02-09 Anis Bari is the author of two acclaimed books Dreams of The Mango People an inspirational book on how ordinary people choose to become extra ordinary and a monograph Decoding Startups which has notes on startups along with useful entrepreneurial frameworks He has received many awards including the most promising entrepreneur of the year award by TiE The Indus Entrepreneur and has been a winner of the European Union Business Challenge Born in Patna Bihar Anis went on to study engineering from PES Institute of Technology Bangalore and an MBA from the Asian Institute of Management Founded by Harvard Business School Ford Foundation Manila He is an International Rated Chess Player and a Global Shaper Alumni of the World Economic Forum Currently he is a Mason Fellow at Harvard Kennedy School **Foundations of Software Testing: For VTU**, 2013 **ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS** M. N. SHESHA PRAKASH, GANESH B. MOGAVEER, 2014-07-30 This book in its third edition continues to focus on the basics of civil engineering and engineering mechanics to provide students with a balanced and cohesive study of the two areas as needed by them in the beginning of their engineering education A basic undergraduate textbook for the first year students of all branches of engineering this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University VTU Imparting the basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings roads highways dams and bridges the third edition covers the engineering mechanics portion in eleven chapters Each chapter introduces the concepts to the reader stepwise Providing a wealth of practice examples the book emphasizes the importance of building strong analytical skills Practice problems at the end of each chapter give students an opportunity to absorb concepts and hone their problem solving skills The book comes with a companion CD containing the software developed using MS Excel to work out the

problems on Forces Centroid Friction and Moment of Inertia The use of this software will enable the students to understand the concepts in a relatively better way NEW TO THIS EDITION Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU Updates with the latest examination Question Papers including the one held in the month of December 2013 A Textbook Of Engineering Physics (As Per Vtu Syllabus) S. O. Pillai, Sivakami, 2014-08 This textbook is a comprehensive up to date volume providing the concepts and applications of contemporary physics for the use of students pursuing undergraduate engineering degree courses in institutions affiliated to Indian Universities Located in different zones A modern description of interaction between atoms and molecules is given along with discussions of topics such as lasers nanotechnology magnetic properties of materials superconductivity and applications Many riders at the end of each chapter are the salient features of this textbook This may in turn serve the purpose of GATE aspirants and others aspiring for faculty positions in Universities Colleges and research institutions through written examinations *Software Engineering Book with Videos and Online Paper* Manish Soni, 2024-11-13 Software engineering is an ever evolving discipline at the heart of the technological revolution that has transformed our world In an era where software powers our daily lives from the devices in our pockets to the systems that drive global enterprises understanding the principles and practices of software engineering is more critical than ever before This book aims to serve as a comprehensive guide to the field of software engineering offering both beginners and experienced professionals a thorough understanding of the fundamental concepts methodologies and best practices that underpin the creation of high quality software Our journey through the world of software engineering begins with a deep dive into its fundamentals We explore the nature of software debunk myths that surround it and introduce various software process models that have shaped the way we develop software Maintenance often an underestimated aspect of software engineering is examined in detail emphasizing the importance of keeping software systems healthy and up to date In a world increasingly shaped by object oriented thinking we introduce you to the Unified Modeling Language UML and object oriented principles It serves as both a comprehensive foundation and a springboard for exploring advanced topics emerging trends and evolving best practices Key Features Extensive Theoretical Content The book covers the full spectrum of deep learning topics from fundamental concepts to advanced techniques Each chapter is designed to build on the previous one ensuring a logical progression and deep comprehension of the subject matter Online Test Papers To reinforce your learning we provide a series of online test papers that mimic real world scenarios and challenges These tests are designed to evaluate your understanding and help you identify areas that need further study Video Tutorials Understanding deep learning concepts can sometimes be challenging through text alone Our book includes links to a series of video tutorials that provide visual and auditory explanations of complex topics These videos are created by experts and are intended to complement the written material offering a more immersive learning experience Practical Applications Each chapter includes real world examples and case studies that illustrate how deep learning is applied across different industries These examples

help bridge the gap between theory and practice demonstrating the practical relevance of deep learning skills Self Assessment Tools At the end of each chapter self assessment questions and exercises allow you to test your understanding and track your progress These tools are invaluable in helping you gauge your readiness and build confidence as you move forward Our goal is to empower you to become a proficient software engineer capable of tackling complex challenges creating innovative solutions and contributing to the advancement of technology We invite you to embark on this journey through the fascinating world of software engineering Machine Learning Interview Questions Veena A and Gowrishankar S, The book aim of Machine Learning interview questions is to determine a candidate s level of knowledge and understanding of Machine Learning concepts algorithms and tools These types of interviews are often used by employers to assess an applicant s problem solving skills and technical proficiency in the field The scope of scope of this book Machine Learning interview questions can range from basic to more complex topics such as the fundamentals of supervised and unsupervised learning working with data sets and libraries building ML models and deploying and monitoring ML systems Additionally the interviewer may ask questions about the candidate s experience with specific Machine Learning frameworks data science techniques and software engineering practices Overall this book helps to assess the candidate s level of knowledge and experience in the field of Machine Learning As such it is important for the interviewer to ask questions that are relevant to the job and the candidate s qualifications as well as to provide a supportive environment where the candidate can demonstrate their skillset **Elements of Civil Engineering and Engineering Mechanics** Prakash M. N.

Shesha,mogaveer Ganesh B.,2011-11-30 It is a basic under graduate textbook for first year students of all branches of engineering though especially designed to conform to the syllabus of visvesaraya technological university vtu The book imparts basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings roads highways dams and bridges inter alia emphasizing the role and responsibilities of a civil engineer in modern society It also briefly explains the broad scope of allied fields of civil engineering such as surveying transportation water resources environmental engineering geotechnical engineering foundation engineering and construction technology The engineering mechanics portion of the book is comprehensively covered in eight chapters divided into topics on forces centroid moment of inertia and friction Each chapter introduces the concepts to the reader gradually and stepwise Providing a wealth of practice examples the book em **Technology Road Mapping for Quantum Computing and Engineering** Mishra, Brojo Kishore,2022-03-25 Quantum computing is radically different from the conventional approach of transforming bit strings from one set of zeros and ones to another With quantum computing everything changes The physics used to understand bits of information and the devices that manipulate them are vastly different Quantum engineering is a revolutionary approach to quantum technology Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts engineering technologies operations and applications from the basics to

future advancements Covering topics such as machine learning quantum software technology and technology road mapping this book is an excellent resource for data scientists engineers students and professors of higher education computer scientists researchers and academicians

Aerodynamics 1 Mr. Rohit Manglik,2023-09-23 Introduces the principles of aerodynamics including airflow lift drag and basic aircraft structures relevant to flight performance *Educational Television In India* N.U. Rani,2006 Contents Rise of Indian Television SITE Satellite Instructional Television Experiment A Learning Experience in Connectivity Through Space in India Growth and Development of Education TV ETV in India Institutions Using Educational Media in India EDUSAT India s First Satellite Dedicated to Education GRAMSAT Village Satellite for Empowerment of Rural People in India Networking Technical Education Technical Education in New Millennium Instructional TV Courses in Canada A Case Study of Convergent Classroom for Adoption in Indian Universities Evaluation of Educational Technology and Media Research Classroom of the New Millennium Fluid Mechanics Anup Goel,2021-01-01 Fluid Mechanics is the branch of physics concerned with the mechanics of fluids and forces acting on them It includes unlimited practical applications ranging from microscopic biological systems to automobiles airplanes and spacecraft propulsion Fluid Mechanics is the study of fluid behavior at rest and in motion It also gives information about devices used to measure flow rate pressure and velocity of fluid The book uses plain Lucid language to explain fundamentals of this subject The book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics Each chapter is well supported with necessary illustrations practical examples and solved problems All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies All care has been taken to make readers comfortable in understanding the basic concepts of the subject

Advances in IoT and Security with Computational Intelligence Anurag Mishra,Deepak Gupta,Girija Chetty,2023-09-21 The book is a collection of peer reviewed best selected research papers presented at the International Conference on Advances in IoT and Security with AI ICAISA 2023 organized by Deen Dayal Upadhyaya College University of Delhi New Delhi India in collaboration with University of Canberra Canberra Australia and NIT Arunachal Pradesh Itanagar AP India during March 24 25 2023 The book includes various applications and technologies in this specialized sector of Industry 4 0 The book is divided into two volumes It focuses on recent advances in Internet of Things and security with its applications using artificial intelligence Digital Image Processing : Practical Implementation With MATLAB Dr. A Chrispin Jiji,Dr. Y R Annie Bessant,Dr. S. Absa,Dr. S. Maria Seraphin Sujitha,2023-12-30 The book Digital Image Processing Practical Implementation with MATLAB is strictly based on the syllabus prescribed by V T U mainly for the students of 7TH semester B E Electronics and Communication Engineering and Telecommunication Engineering It covers the theoretical and implementation using MATLAB This book deals with 5 Modules The first module deals with the fundamentals of Digital Image Processing The second module gives detailed information about Image Enhancement The third module deals with the methods of Image Restoration The fourth module

gives detailed information about color wavelet and Morphological image Processing The fifth module deals with Segmentation Representation and Description

Operations Research N. V. R. Naidu, G. Rajendra, 2013-12-30 Operation Research has emerged as the most spectacular aspect of optimization techniques Practising professionals usually rate operations research as the most useful subjects studied in college Operations Research is designed for the students of industrial engineering and management This book comprises 12 chapters and provides the introduction of each chapter and various problems of real practical situation in the organizations as well as in daily life

Advances in Databases and Information Systems Yannis Manolopoulos, Pavol Navrat, 2003-08-02 This book constitutes the refereed proceedings of the 6th East European Conference on Advances in Databases and Information Systems ADBIS 2002 held in Bratislava Slovakia in September 2002 The 25 revised full papers and 4 short papers presented together with 3 invited papers were carefully reviewed and selected from 115 submissions The papers are organized in topical sections on data mining and knowledge discovery mobile databases spatiotemporal and spatial databases multidimensional databases and information systems object oriented and deductive databases data modeling and workflows Web databases and semistructured data and advanced systems and applications

ICT for Competitive Strategies Durgesh Kumar Mishra, Nilanjan Dey, Bharat Singh Deora, Amit Joshi, 2020-05-05 Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state of the art as well as emerging topics pertaining to information and communication technologies ICTs and effective strategies for its implementation for engineering and intelligent applications

Cooperative Design, Visualization, and Engineering Yuhua Luo, 2006-09-21 This book constitutes the refereed proceedings of the Third International Conference on Cooperative Design Visualization and Engineering CDVE 2006 held in Mallorca Spain in September 2006 The book presents 40 revised full papers carefully reviewed and selected from numerous submissions The papers cover all current issues in cooperative design visualization and engineering ranging from theoretical and methodological topics to various systems and frameworks to applications in a variety of fields

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