

## Third Semester B.E. Degree Examination, Jan./Feb. 2021

### Discrete Mathematical Structures

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

#### Module-1

1. a. Verify that, for any three propositions  $p, q, r$  the compound proposition  $[p \rightarrow (q \rightarrow r)] \rightarrow [(p \rightarrow q) \rightarrow (p \rightarrow r)]$  is a tautology or not. (06 Marks)
- b. Test for validity of following argument:  
 If Ravi goes out with friends, he will not study  
 If Ravi do not study, his father becomes angry  
 His father is not angry  
 $\therefore$  Ravi has not gone out with friends (07 Marks)
- c. Give direct and indirect proof of following statement "Product of two odd integers is an odd integer". (07 Marks)

#### OR

2. a. For any three propositions  $p, q, r$ , prove that  $[ \neg p \wedge (\neg q \wedge r) ] \vee [(q \wedge r) \vee (p \wedge r)] \leftrightarrow r$  (06 Marks)
- b. Check for validity of following argument:  
 If a triangle has two equal sides then it is isosceles. If a triangle is isosceles then it has two equal angles.  
 A certain triangle ABC does not have two equal angles  
 $\therefore$  The triangle ABC does not have two equal sides. (07 Marks)
- c. Consider the following open statement on set of all real numbers as universe:  
 $p(x) : x \geq 0$      $q(x) : x^2 \geq 0$      $r(x) : x^2 - 3x + 4 \leq 0$      $s(x) : x^2 - 3 > 0$   
 Then find truth value of i)  $\exists x, p(x) \wedge q(x)$     ii)  $\forall x, p(x) \wedge q(x)$     iii)  $\forall x, q(x) \rightarrow s(x)$   
 iv)  $\forall x, r(x) \vee s(x)$  (07 Marks)

#### Module-2

3. a. By mathematical induction prove that  
 $1^2 + 3^2 + 5^2 + \dots + (2n-1)^2 = \frac{1}{3} n(2n-1)(2n+1)$  (06 Marks)
- b. Find coefficient of i)  $x^6$  in the expansion of  $(3x^2 - \frac{2}{x})^9$   
 ii)  $x^3 y^4$  in the expansion of  $(2x^3 - 3xy^2 + x^2)^4$  (07 Marks)
- c. A total amount of Rs. 1,500 is to be distributed to three students A, B, C. In how many ways distribution can be done in the multiples of Rs. 100 if  
 i) Every students gets at least Rs. 300  
 ii) A must get at least Rs. 500, B and C must get at least Rs. 400 each. (07 Marks)

#### OR

4. a. By mathematical induction prove that for any positive integer  $n$  the number  $11^{n+2} + 12^{2n+1}$  is divisible by 133. (06 Marks)
- b. How many positive integers  $n$  can be formed from the digits 3, 4, 4, 5, 5, 6, 7 if we want  $n$  to exceed 5,000,000. (07 Marks)
- c. A certain question paper has 3 parts A, B, C with four questions in Part A, Five in B and Six in C. It is required to answer seven questions by selecting at least two from each part. In how many different ways student can answer seven questions. (07 Marks)

# Vtu University Question Papers

**M. N. SHESHA PRAKASH, GANESH B.  
MOGAVEER**



## **Vtu University Question Papers:**

Accounting for Managers: For VTU ,      *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

**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

**Socio-Legal Perspectives of Indian Women through Ages** Socio-Legal Perspectives of Indian Women through Ages, 2022-11-24 In this book the authors have covered rights of women from ancient to modern India The authors cover medieval age too They have also covered rights of Vedic women Women in Jainism Women in Islam and women in Christianity The awakening created on rights of women has eradicated many social evils like Sati practices The authors clearly highlight as how Domestic violence Act decreased the crime on women in a big way The Rules pertaining to Acid attacks on women has sent right signals against the heinous crime The authors have covered Public personal and professional life of women Property rights is one economic tool which helped daughters to get rightful share in the parents property This has revolutionized the economic rights of women by many folds Contents 1 Women in Ancient and medieval India 2 Women in modern India 3 Status of women in Independent India 4 Legislations for redressal of atrocity against women in public life 5 Statutes for safety and welfare of women at work place 6 Entrepreneurial rights of women 7 Critical analysis of position of women in India 8 Conclusion      **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 **Metal**

**Casting and Welding** Anup Goel,2020-12-01 Metal casting is the process of producing metal or alloy component parts In casting the metal is heated sufficiently to make it into liquid and then poured into moulds of the desired shape Casting is most often used for making complex shapes so that would be difficult or uneconomical to make by other methods Welding is a fabrication process that joins materials usually metals by using high heat to melt the parts together and allowing them to cool causing fusion Many different energy sources can be used for welding including gas flame electric arc a laser and electron beam friction and ultrasonic Our hope is that this book through its careful explanations and concepts and its use of sketches and figures bridges the gap between knowledge and proper application of that knowledge 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 **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 Consumer Brand Relationships in Tourism Raouf Ahmad Rather,2024-11-11 This book provides a

comprehensive overview of consumer brand relationships CBR in tourism and hospitality marketing management including

pre during and post COVID 19 pandemic It critically investigates the current debates and questions within the field and includes both theory and practical cases from around the globe It brings together leading specialists from various disciplinary backgrounds and geographical regions to offer state of the art theoretical reflections and empirical research on contemporary issues This book is a reference point for scholars researchers academics and students in the field of CBR across disciplines including tourism marketing hospitality leisure festivals and events     Respect Davy Mohan, Aryan a rich Bengali boy grows up seeing his family s wealth take a plunge due to his father s ill health The land mafia tries to grab hold of the last piece of land the family owns He stands up against all odds to fight them and to protect his family s land which is the last hope to secure a decent future for the family only to discover an ugly truth that the family he had been protecting has turned their back on him at his most crucial time of need During this time he loses his friends and the girl he loves as she falls out of love with him and falls into the arms of her best friend Depressed hurt and hateful with vengeance he decides to take on the people who brought him to this stage of ruin in his life including his one time love     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     Electric Motors Uday A. Bakshi,Dr. Mayuresh V. Bakshi,2020-11-01 The importance of electric motors is well known in the various engineering fields The book provides comprehensive coverage of the various types of electric motors including d c motors three phase and single phase induction motors synchronous motors universal motor a c servomotor linear induction motor and stepper motors The book covers all the details of d c motors including torque equation back e m f characteristics types of starters speed control methods and applications The book also covers the various testing methods of d c motors such as Swinburne s test brake test retardation test field test and Hopkinson s test The book further explains the three phase induction motors in detail It includes the production of rotating magnetic field construction working effect of slip torque equation torque ratios torque slip characteristics losses power flow equivalent circuit effect of harmonics on the performance circle diagram and applications This chapter also includes the discussion of induction generator The book teaches the various starting methods and speed control methods of three phase induction motors The book incorporates the explanation of various single phase induction motors The chapter on synchronous motor provides the detailed discussion of construction working principle behavior on load analysis of phasor diagram Vee and Inverted Vee curves hunting synchronous condenser and applications The book also teaches the various special machines such as single phase commutator motors universal

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**A Textbook of Electrical Technology Volume I: Basic Electrical Engineering** B L Theraja & A K Theraja, A Textbook of Electrical Technology Volume I Basic Electrical Engineering

**Foundations of Software Testing: For VTU**, 2013 Electromagnetic Field Theory Uday A. Bakshi, Late Ajay V. Bakshi, 2020-11-01 The comprehensive study of electric magnetic and combined fields is nothing but electromagnetic engineering Along with electronics electromagnetics plays an important role in other branches The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students The knowledge of vector analysis is the base of electromagnetic engineering Hence book starts with the discussion of vector analysis Then it introduces the basic concepts of electrostatics such as Coulomb s law electric field intensity due to various charge distributions electric flux electric flux density Gauss s law divergence and divergence theorem The book continues to explain the concept of elementary work done conservative property electric potential and potential difference and the energy in the electrostatic fields The detailed discussion of current density continuity equation boundary conditions and various types of capacitors is also included in the book The book provides the discussion of Poisson s and Laplace s equations and their use in variety of practical applications The chapter on magnetostatics incorporates the explanation of Biot Savart s law Ampere s circuital law and its applications concept of curl Stoke s theorem scalar and vector magnetic potentials The book also includes the concept of force on a moving charge force on differential current element and magnetic boundary conditions The book covers all the details of Faraday s laws time varying fields Maxwell s equations and Poynting theorem Finally the book provides the detailed study of uniform plane waves including their propagation in free space perfect dielectrics lossy dielectrics and good conductors The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students Each chapter is well supported with necessary illustrations and self explanatory diagrams The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

*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 Novel Research and Development Approaches in Heterogeneous Systems and Algorithms Koley, Santanu, Barman, Subhabrata, Joardar, Subhankar, 2023-03-07 Almost every element of life from commerce and agriculture to communication and entertainment has been profoundly altered by computing Around the world people rely on computers for the creation of systems for energy transportation and military use Additionally computing fosters scientific advancements that advance our basic understanding of the world and assist in finding answers to pressing health and environmental issues Novel Research and Development Approaches in Heterogeneous Systems and Algorithms addresses novel research and developmental approaches in heterogeneous systems and algorithms for information centric networks of the future Covering topics such as image identification and segmentation materials data extraction and wireless sensor networks this premier reference source is a valuable resource for engineers consultants practitioners computer scientists students and educators of higher education librarians researchers and academicians **A Textbook of Electrical Technology** BL Theraja, 2014-07 For Mechanical Engineering Students of Indian Universities It is also available in 4 Individual Parts *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 A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering) BL Theraja, 2005 The primary objective of vol I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil mechanical mining textile chemical industrial environmental aerospace electronic and computer engineering both at the Degree and diploma level Based on the suggestions received from our esteemed readers both from India and abroad the scope of the book has been enlarged according to their requirements Almost half the solved examples have been deleted and replaced by latest examination papers set upto 1994 in different engineering college and technical institutions in India and abroad

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### **Table of Contents Vtu University Question Papers**

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



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