



# CBGS SCHEME

18CS823

## Eighth Semester B.E. Degree Examination, July/August 2022 NOSQL Database

Time: 3 hrs

Max. Marks: 100

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

### Module-1

- 1 a. What is NOSQL? Explain briefly about aggregate data models with a neat diagram. (08 Marks)  
b. Considering example of Relations and Aggregates. (07 Marks)  
c. Briefly describe the value of Relational databases. (05 Marks)  
d. Explain briefly about impedance mismatch, with a neat diagram.

### OR

- 2 a. Write short notes on :  
i) Consequences of Aggregate Orientation ii) Key – value data model. (08 Marks)  
iii) Document data model iv) Column family stores. (07 Marks)  
b. Explain about graph databases, with a neat diagram. (05 Marks)  
c. What are Schemaless databases? Explain.

### Module-2

- 3 a. What are the distribution models? Briefly explain two paths of data distribution. (10 Marks)  
b. Explain about Update consistency and Read consistency, with an example. (10 Marks)

### OR

- 4 a. Write short notes on :  
i) Single server ii) Combining Sharding and Replication (07 Marks)  
b. Explain the following :  
i) Relaxing consistency ii) CAP theorem (08 Marks)  
iii) Relaxing Durability iv) Quorums. (05 Marks)  
c. Define Version Stamps. Explain briefly about various approaches of constructing version stamps.

### Module-3

- 5 a. Explain with a neat diagram, the partitioning and combining in Map reduce. (10 Marks)  
b. Explain two stages Map- Reduce example, with a neat diagram. (10 Marks)

### OR

- 6 a. Explain Basic Map – Reduce, with a neat diagram. (07 Marks)  
b. How are calculations composed in Map – Reduce? Explain with a neat diagram. (08 Marks)  
c. What are Key value Stores? List out some popular key value database. Explain how all the data is stored in a single bucket of key value data store. (05 Marks)

### Module-4

- 7 a. What are Document Databases? Explain with an example. List and explain any 2 features of document databases. (10 Marks)  
b. Elaborate the suitable use cases of document databases. When document databases are not suitable? Explain. (10 Marks)

# Vtu Question Paper

**Anurag Mishra,Deepak Gupta,Girija  
Chetty**



## Vtu Question Paper:

**Accounting for Managers: For VTU ,      Foundations of Software Testing: For VTU ,2013      Transformers and Generators** Uday A. Bakshi,Dr. Mayuresh V. Bakshi,2020-11-01 The importance of transformers and generators is well known in the various engineering fields The book provides comprehensive coverage of the various types of transformers d c generators and synchronous generators alternators The book starts with the brief review of single phase transformer It continues to discuss no load and on load performance of transformers phasor diagrams equivalent circuit voltage regulation and all day efficiency of transformer The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book The chapter on three phase transformer provides the detailed discussion of construction three phase transformer connections and phasor groups The book also explains parallel operation of transformers tap changing transformer autotransformers cooling of transformers and three winding transformer The various testing methods of transformers are also incorporated in the book The book covers all the details of d c generators including construction armature reaction commutation characteristics and applications The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction winding details e m f equation and effect of harmonics on induced e m f The book then explains the concept of armature reaction phasor diagrams regulation and various methods of finding the regulation of alternator Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book The book further explains the concept of synchronization of alternators two reaction theory and parallel operation of alternators 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 Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting      **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 motor a c servomotor linear induction motor and stepper motors 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 Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting 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

**Fundamentals of Engineering Physics** Mr. Ajeet Singh,2018-05-13 EduGorilla has its own publishing wing producing exam prep books trade books etc *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      **Automata and Computability** Anuradha A.

Puntambekar,2020-12-01 The book has been developed to provide comprehensive and consistent coverage of concepts of automata theory formal languages and computation This book begins by giving prerequisites for the subject like strings languages types of automata deterministic and non deterministic automata It proceeds forward to discuss advanced concepts like regular expressions context free grammar and pushdown automata The text then goes on to give a detailed description of context free and non context free languages and Turing Machine with its complexity This compact and well organized book provides a clear understanding of the subject with its emphasis on concepts along with a large number of examples

**Microcontrollers** Atul P. Godse,Dr. Deepali A. Godse,2020-12-01 The book is written for an undergraduate course on the 8051 and MSP430 microcontrollers It provides comprehensive coverage of the hardware and software aspects of 8051 and MSP430 microcontrollers The book is divided into two parts The first part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 and interfacing 8051 with external memory It explains timers counters serial port interrupts of 8051 and their programming It also describes the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors and DC motor interfacing The second part focuses on MSP430 microcontroller It teaches you the low power features architecture instruction set programming digital I O and on chip peripherals of MSP430 It describes how to use code composer studio for assembly and C programming It also describes the interfacing MSP430 with external memory LCDs LED modules wired and wireless sensor networks      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 shou      *Advanced Calculus and Differential Equations* Mr. Rohit Manglik,2022-07-22 Studies advanced calculus topics and differential equations crucial for modeling physical systems and solving engineering problems

**Microprocessor and Microcontroller** Saurabh Chaudhury,Risha Mal,2025-06-01      **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 **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 **Basic Thermodynamics** B. K. VENKANNA, SWATI B. V.,B. K. Venkanna,B. V.

Swati,2010-07 This book provides an in depth discussion of the principles of thermodynamics It focuses on engineering applications of theory and sound techniques for solving thermodynamic problems The book presents the fundamental concepts of thermodynamics and describes the theory of work and heat The text covers in detail the first law and the second law of thermodynamics with their applications It also explains the concepts of entropy and availability and irreversibility In addition the book presents thermodynamic properties of pure substances ideal gases and mixtures of ideal gases as well as real gases This book is designed for undergraduate students of mechanical engineering industrial and production engineering automobile engineering and aeronautical engineering for their courses in thermodynamics Key Features Presents the text in a simple and elegant manner to enable the students to grasp the essentials of the subject easily and quickly Covers all types of problems of various difficulty levels Includes more than 300 worked out examples and a large number of end of chapter exercises Provides solutions to several model question papers at the end of the book

*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 **17**

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**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

**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

**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

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