

Model Question Paper 1- 21BS12 I-SEM with effect from 2021 (CBCS Scheme)

USN

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First Semester B.Sc. Degree Examination

Subject Title: Mechanics and Properties of Matter (Physics)

TIME: 03 Hours

Max. Marks: 100

- Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.
 02. Draw neat sketches where ever necessary.
 03. **Constants** : Speed of Light " c " = $3 \times 10^8 \text{ ms}^{-1}$, Boltzmann Constant " k " = $1.38 \times 10^{-23} \text{ JK}^{-1}$,
 Planck's Constant " h " = $6.625 \times 10^{-34} \text{ Js}$, Acceleration due to gravity " g " = 9.8 ms^{-2} ,
 Permittivity of free space " ϵ_0 " = $8.854 \times 10^{-12} \text{ F m}^{-1}$.

Module -1			Marks
Q.01	A	State and explain law of conservation of angular momentum. Derive the expression for work done by a torque.	08
	B	Derive Kepler's second law of planetary motion.	08
	C	Calculate the angular velocity of the wheel of a vehicle moving at a speed of 180 km/h. The diameter of the wheel is 0.11m.	04
OR			
Q.02	A	What is elastic and inelastic collisions. Discuss elastic collision between two particles which do not stick together in laboratory frame of reference.	08
	B	Discuss the conservation of linear momentum in case of variable mass. Mention the expression for single stage rocket.	08
	C	A grinder is in the form of a circular disc of mass 10 kg and diameter 0.4 m. Calculate the constant torque that has to be applied so that the disc acquires an angular velocity of 4 revolution/second in 5 seconds. Also calculate the rate at which work is done by torque at the end of 5 seconds.	04
Module-2			
Q. 03	A	Obtain an expression for kinetic energy of a rotating body.	08
	B	Derive an expression for moment of inertia of rectangular lamina.	08
	C	A fly wheel is a uniform disc of mass 72 kg and radius 0.5 m. Calculate Moment of Inertia and its kinetic energy when it is rotating at 70 r.p.m	04
OR			
Q.04	A	State and prove the theorem of perpendicular axes as applied to moment of inertia.	10
	B	Define moment of Inertia and explain its physical significance.	06
	C	Calculate the MI of a rectangular plate of mass 1 kg about an axis through its center of gravity and perpendicular to its plane. Its length is 0.2 m and breadth 0.1m. Find its radius of gyration about the same axis	04
Module-3			
Q. 05	A	Define simple harmonic motion. Obtain an expression for total energy of a particle executing simple harmonic motion.	10
	B	Define Resonance. Explain Helmholtz resonator.	06
	C	A 20 gm oscillator with natural frequency 10 rad/s is vibrating in damping medium. The damping force is proportional to the velocity of the vibration. If the damping coefficient is 0.17, how does the oscillation decay.	04
OR			

Vtu Question Paper

Anuradha A. Puntambekar



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 *Engineering Mathematics - II* EduGorilla Prep Experts,2024-07-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **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 *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 **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

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 **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 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 of 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 of MSP430 with external memory, LCDs, LED modules, wired and wireless sensor networks.

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 **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 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 *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 **9 Year-wise SSC Stenographer Exam Previous Year Solved Papers (2023 - 13) | Staff Selection Commission | PYQs** Disha Experts, The First edition of 9 Year wise SSC Stenographer Previous Year Solved Papers 2013-24 consists of the detailed solutions of the past 9 solved

papers of SSC Stenographer Exam The exams covered are 2013 2014 2016 2017 2018 held in 2019 2019 2020 held in 2021 2021 held in 2022 2022 held in 2023 2023 5 Sets of 2024 Solved Papers Complete and authentic solution according to SSC The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students It is advisable to appear in these Papers as Mock Tests **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 17 Year-wise CTET Paper 2 (Mathematics & Science) Previous Year Solved Papers (2023 - 2011) - Class 6 - 8 Teachers - 5th English Edition | Central Teacher Eligibility Test PYQs Question Bank , The updated 5th edition of the book 17 YEAR WISE CTET Paper 2 Mathematics Science Solved Papers 2023 2011 Class 6 8 English Edition contains detailed Solutions to the Past 17 Solved Papers of the CTET exam from 2011 to 2023 The past 17 CTET Solved papers included are June 2011 Jan Nov 2012 July 2013 Feb Sep 2014 Feb Sep 2015 Feb Sep 2016 Papers Dec 2018 July Dec 2019 Dec 2020 Dec Jan 2021 Dec Jan 2022 Aug 2023 The detailed solutions are provided immediately after each test Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPSTET CGTET UKTET HPTET BTET PTET and other STET Exams *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

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