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10ME761

Seventh Semester B.E. Degree Examination, Dec.2014/Jan.2015

### Experimental Stress Analysis

Time: 3 hrs.

Max. Marks: 100

*Note: Answer FIVE full questions, selecting at least TWO questions from each part.*

#### PART - A

1. a. Define gauge factor. Derive an expression for it. (10 Marks)  
b. Explain temperature compensation of strain gauges. Also explain the types of compensating gauges. (10 Marks)
2. a. Define a strain rosette. Mention the different types of strain rosette configurations with neat sketches. (06 Marks)  
b. A delta rosette yields the following strain indications  $\epsilon_1 = -845 \mu\text{m/m}$ ,  $\epsilon_2 = 1220 \mu\text{m/m}$  and  $\epsilon_3 = 710 \mu\text{m/m}$ . Calculate the maximum principal strain direction, the principal stresses and the maximum shear stresses. Take  $E = 200 \text{ GPa}$ ,  $\nu = 0.285$ . (14 Marks)
3. a. Define stress optic law. And derive it in two dimensional photoelasticity. (10 Marks)  
b. Explain the calibration method (i) using tension method, (ii) using the circular disc specimen. (10 Marks)
4. a. Explain the shear difference method for the separation of principal stresses. (10 Marks)  
b. What are the properties of an ideal photoelastic material? Discuss a few important photoelastic materials. (10 Marks)

#### PART - B

5. a. Explain stress freezing technique in 3-D photoelasticity. (10 Marks)  
b. Describe the set up of a scattered light polariscope. (10 Marks)
6. a. What is birefringence? Mention the assumptions made. Explain how stresses and strains can be measured using birefringent coating. (10 Marks)  
b. Explain with a neat sketch the principle and operation of a reflection polariscope. (10 Marks)
7. a. What is brittle coating technique? Explain bad relaxation technique of coating. Also mention its uses. (10 Marks)  
b. Explain crack-detection techniques in brittle coating method. (10 Marks)
8. a. What are the applications of moiré method of strain analysis? (04 Marks)  
b. Explain strain analysis by the displacement approach. (06 Marks)  
c. Explain the geometric approach of moiré fringe strain analysis. (10 Marks)

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# Mechanical 7th Sem Question Papers

**Anup Goel**



## **Mechanical 7th Sem Question Papers:**

**Mechanical System Design** Anup Goel, 2020-12-01 In machine design or design of machine elements we study about the design of individual components of machinery like shafts keys belts bolts gears etc In mechanical system design we means that how these components are going to work in collaboration reliability of the system when different components work together This book includes design of conveyors for material handling systems belt conveyors design of multispeed gearbox for machine tools design of I C engine components and optimum design It also includes the design of pressure vessels used in mechanical systems This book provides a systematic exposition of the basic concepts and techniques involved in design of mechanical systems Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

**Sample Question Papers for ISC Science Stream Class 12 Semester I Exam 2021** Oswal - Gurukul, 2021-10-04 Prepare Well Perform Outstandingly with Oswal Gurukul Science Stream Sample Question Papers for ISC 12th Class Semester 1 Examination 2021 This Practice Book includes Science Subject test papers combined together such as English I II Mathematics Computer Science Physics Chemistry Biology Physical Education How can you benefit from Oswal Gurukul ISC Science Sample Papers for 12th Class Our Sample Question Handbook Includes subject wise question papers strictly based on the Modified Assessment Plan issued by the board on 6th August 2021 1 Strictly based on the Reduced Syllabus prescribed by council in July 2 Entire Syllabus covered for Semester 1 Exam 3 Fully Solved Questions based on New Specimen Question Paper Pattern given in Aug Sept 2021 4 All Science Stream Subjects Combined in One Book 5 Well explained Expert Answers for Better Understanding 6 Focused on Topics most likely to be asked in Boards

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**Systems in Mechanical Engineering** Anup Goel, 2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems

This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge [Educart ICSE Class 10 One-shot Question Bank 2026 Physics \(strictly for 2025-26 boards\)](#) Sir Tarun Rupani,2025-07-12 Concept clarity exam level practice for ICSE Physics Class 10 This One shot Question Bank by Sir Tarun Rupani is a complete revision and practice tool for ICSE Class 10 Physics created strictly according to the latest 2025 26 CISCE syllabus Ideal for both last minute prep and structured study the book balances theory with practical problem solving Key Features Based on the Latest ICSE 2025 26 Syllabus Full coverage of topics like Force Light Sound Electricity Magnetism and more One shot Format Each chapter begins with crisp summaries important formulas and diagrams for fast conceptual understanding All Question Types Covered Includes MCQs short answers long answers numericals and diagram based questions Chapterwise PYQs Included Real exam questions from past ICSE papers to familiarise students with actual paper trends Solved Answers in ICSE Format Stepwise solutions with proper units working and presentation as per the official marking scheme Numerical Practice Focus Special attention to frequently asked numericals and formula based problems with tricks to avoid calculation errors Why Choose This Book Whether you re revising Physics formulas or tackling complex numericals this One shot by Sir Tarun Rupani provides the exact support needed to boost your confidence and performance An ideal revision companion to master Physics and score high in the 2026 ICSE board exam **Material Science and Metallurgy** Anup Goel,2021-01-01 A material is that from which anything can be made It includes wide range of metals and non metals that are used to form finished product The knowledge of materials and their properties is of great significance for a design engineer Material science is the study of the structure properties relationship of engineering materials such as ferrous non ferrous materials polymers ceramics composites and some advanced materials Metallurgy is the study of metals related to their extraction from ore refining production of alloys along with their properties The study of material science and metallurgy links the science of metals to the industries Also this helps in completing demands from new applications and severe service requirements [Educart ICSE Class 10 Physics Chapter-wise Question Bank \(Solved Papers\) 2025-26 - Strictly Based on New Syllabus 2026](#) Educart,2025-04-16 Book Structure Previous years questionsDetailed Solutions Explanations Use Educart ICSE Class 10 Question Bank to score 95 % Covers the latest ICSE 2025 26 syllabus with well structured content Includes previous years questions to help students understand exam trends Features exam oriented practice to boost confidence Provides detailed solutions and expert explanations for thorough learning Detailed Solutions Explanations Step by step answers for all questions Important Caution Points Helps avoid common mistakes in exams Chapter wise Theory Simplified explanations for every topic Real life Examples Practical applications for better understanding Why choose this book ICSE 2025 26 Question

bank provides a structured approach to learning with simplified chapter wise theory real life examples and detailed solutions to all questions With a focus on conceptual clarity and mistake prevention this book serves as a reliable resource for scoring high in exams

Principles of Mechanical Engineering Mr. Sanjeev Pandey,2024-08-16 An introductory text covering the fundamental principles of mechanics thermodynamics materials manufacturing processes and mechanical design aimed at providing a strong base for engineering students and professionals

**Elements Of Civil & Mechanical Engineeri** L S Jayagopal, This book presents the fundamentals of Civil and Mechanical Engineering Designed as per the revised and new core engineering paper of Basic Engineering I this book is written in a style suitable for students just out of school

**Design of Machine Elements - I** Anup Goel,2021-01-01 The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need The term machine design deals with the design of machines their mechanisms and elements Design of Machine Element DME may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit Machine elements are basic mechanical parts and features used as the building blocks of most machines This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements This book covers design of important mechanical elements such as shafts couplings springs and power screws under static load The design of welded and threaded joints and the members subjected to fluctuating loads is also included in this book Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

**Elements of Mechanical Engineering(GTU)** Sadhu Singh,2010 The book strictly complies with the new syllabus of Gujrat Technological University Ahmedabad for B E First year of all braches of Engineering The subject matter is presented in a graded stepwise easytofollow style Each chapter includes MulipleChoice Questions Review Questions and Exercises for easy recapitulation

*Metrology & Quality Control* Anup Goel,2020-12-01 Metrology is the scientific study of measurement It establishes a common understanding of units crucial in linking human activities The knowledge of this subject is essential for all persons irrespective of the branch of engineering For engineering purposes the study is restricted to the measurement of lengths angles and the quantities which are expressed in linear and angular terms This book gives information about various instruments used for linear as well as angular measurements and corresponding errors This book also includes concepts of quality quality control different tools and techniques for quality control total quality management and various latest methods of quality control Our hope is that this book through its careful explanations of concepts examples and figures bridges the gap between knowledge and proper application of that knowledge

**SSC Junior Engineers Mechanical Engineering Paper 1 2019** Arihant Experts,2019-06-04 Staff Selection Commission SSC is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices SSC Junior Engineer CPWD MES

Mechanical Engineering for Paper I Computer based test CBT 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination It is divided into three parts covering General Intelligence and Reasoning General Awareness and Mechanical along with their chapters equipped with complete theories Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity It has 3 solved papers of 2015 2017 and 2018 with detailed solutions It also provides 3 mock tests for self practice Enclosed with such effective set of study material it is hoped that it will ensure success in this upcoming examination TOC Solved Paper 2018 Solved Paper 2017 Solved Paper 2015 PART A General Intelligence Reasoning PART B General Awareness PART C Mechanical 3 Mock Test

**Turbo Machines** Anup Goel, 2021-01-01 Turbo machines in mechanical engineering describes machines that transfer energy between rotor and fluid including turbines pumps and compressors While turbine transfers energy from fluid to rotor and compressor and a pump transfers energy from rotor to fluid Turbo machine is a power or a head generating machine which employs the dynamic action of a rotating element the rotor the action of the rotor changes the energy level of the continuously flowing fluid through the machine The majority of turbo machines run at comparatively higher speeds without any mechanical problems and high volumetric efficiency Turbo machines can be categorised on the basis of the nature of flow path through the passage of the rotor The same fundamentals are applicable to all turbo machines certainly there are significant differences between these machines In this book SI unit system is followed Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge *Dynamics of Machinery* Anup Goel, 2021-01-01 Dynamics of machinery is concerned with the motion of the parts of the machines and the forces acting on these parts Dynamic loads and undesired oscillations increase with higher speed of machines At the same time industrial safety standards require better vibration isolation This book covers balancing of mechanisms torsion vibrations vibration isolation and the dynamic behaviour of drives and machine frames as complex systems Typical dynamic effects such as the gyroscopic effect damping and absorption shocks are explained using practical examples The substantial benefit of this dynamics of machinery lies in the combination of theory and practical applications and the numerous descriptive examples based on practical data Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

*Manufacturing Technology - II* Anup Goel, 2021-01-01 Manufacturing Technology II is a branch of mechanical engineering which extensively deals with the production of industrial goods with the help of advanced tools and machinery This subject gives information which covers the more practical knowledge than the theory It provides tool to enable production of manufacturing goods efficiently The subject gives idea to maximise product quality and to minimise the production cost It also gives information about the different surface finishing techniques My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that

knowledge      *Operation Research* Anup Goel,Ruchi Agarwal,2021-01-01 Operations research is the fast developing branch of science which deals with the most of the engineering activities It consist of many models which are used to obtain the optimum solution for different activities Operations research is a procedure which is executed iteratively for comparing various solutions till the optimum or satisfactory solution is obtained An important aspect of the optimal design process is the formulation of the problem in a mathematical format which is acceptable to an algorithm and thus find out the optimal solution These techniques are extensively used in those engineering design problem where the emphasis is on maximising or minimising a certain goal This book is the introduction to the different techniques in operations research The subject does not require a high level of mathematical knowledge Each chapter of the book have examples from variety of fields Our hope is that this book through its careful explanations of concepts practical examples and techniques bridges the gap between knowledge and proper application of that knowledge      *Basics of Civil & Mechanical Engineering* Thakur Publication,2021-03-03 Buy Solved Series of Basics of Civil Mechanical Engineering E Book for B Tech I II Semester Students Common to All of APJ Abdul Kalam Technological University KTU Kerala      **Principles of Management: A textbook for university students** Kailas Sree Chandran,2020-01-01 This book includes all the basic topics of management required for any university It contain topics like Functions of management levels skills arts science scientific management motivation theories Theory X and Y CSR Ethics planning organisation structure decision making span of control selection process HRM leadership etc and other topics      **Basic Mechanical Engineering** Sadhu Singh,2009 This textbook for the first year students of all branches of Rajiv Gandhi Proudyogiki Vishwavidyalaya RGPV Bhopal M P It has been strictly according to the new syllabus of RGPV The subject matter has been explained clearly and precisely in the simplest way Salient features are 250 Solved ExamplesA number of exercises at the end of every chapter Multi Choice

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