

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

### GUJARAT TECHNOLOGICAL UNIVERSITY

BE- VIII<sup>th</sup> SEMESTER-EXAMINATION - MAY- 2012

Subject code: 180803

Date: 08/05/2012

Subject Name: Biomedical Instrumentation

Time: 10:30 am – 01:00 pm

Total Marks: 70

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain various components of physiological system of body. 07  
 (b) List and discuss briefly various types of transducers used for Bio- medical applications. 07
- Q.2** (a) Explain electrode tissue interface for surface electrodes used with jelly. Also discuss Electrode Electrolyte interface. 07  
 (b) What is EEG? Why is it much more difficult to recognize than ECG? How can certain characteristic EEG Waveform be related to sleep? 07  
**OR**  
 (b) Describe Ultrasonic Blood flow method for blood flow measurement through artery along with governing Doppler equation. 07
- Q.3** (a) Write short notes on Pacemakers and Defibrillators. 07  
 (b) What is Heart Lung Machine? Explain its working with constructional Diagram. 07  
**OR**
- Q.3** (a) What do you understand by the term "blood count"? Describe the operation of blood counter. 07  
 (b) Explain the structure and function of central nervous system. 07
- Q.4** (a) Explain the generation of bioelectric potential in human body. Explain acting and resting potential with necessary wave form. 07  
 (b) What is Hemodialysis? Explain Hemodialysis machine with block diagram 07  
**OR**
- Q.4** (a) Explain Auto Analyser system with the help of neat diagram and explain function of each block? 07  
 (b) What is Colorimeter? Explain block diagram of colorimeter with its application. 07
- Q.5** (a) Describe and explain shock hazards for electric equipment and prevention against them. 07  
 (b) Explain the working principle of CT Scan with block diagram. 07  
**OR**
- Q.5** (a) What you mean by pH? Explain measurement of pH with electrode. How this system calibrated? 07  
 (b) Name the three basic types of electrodes for measurement of bioelectric potentials. Explain any one in detail 07

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# **Gtu Exam Papers Solution**

**S S Khandare**



Gtu Exam Papers Solution

Engineering Mathematics Iii (For Gtu) Ram Babu,2010-09

**Engineering Graphics for the First Year Student (GTU)** Prof. P. J. Shah, Engineering Graphics in its 13th year has been succinctly revised for the Engineering students of 1st year of Gujarat Technological University Ahmedabad Beginning with the units dimensions and standard this book discusses the measurement and measurement errors Then it goes on to discuss electronics equipment measurements of low resistance and A C bridges Moreover the book deals with the cathode ray oscilloscopes Further it describes various instrument calibration Finally the book deals with recorders and plotters

**Mathematics II : For Gujarat Technological University** Ravish R. Singh & Mukul Bhatt, Mathematics II has been written specifically as per the Gujarat Technological University GTU syllabus and for First Year Second Semester students of all programmes of engineering It covers important topics such as Vector Calculus Laplace Transform and Inverse Laplace Transform Fourier Integral First Order Ordinary Differential Equations Ordinary Differential Equations of Higher Orders and Series Solutions of Ordinary Differential Equations and Special Functions to help students gain a deep rooted understanding of the key elements of the subject which would help students to build their self confidence which is the key aspect in learning

**Data and File Structure (For GTU), 2nd Edition** Rohit Khurana, Data and File Structure has been specifically designed to meet the requirements of the engineering students of GTU This is a core subject in the curriculum of all Computer Science programs The aim of this book is to help the students develop programming and algorithm analysis skills simultaneously such that they are able to design programs with maximum efficiency C language has been used in the book to permit the execution of basic data structures in a variety of ways Key Features 1 Simple and easy to follow text 2 Wide coverage of topics 3 Programming examples for clarity 4 Summary and exercises at the end of each chapter to test your knowledge 5 Answers to selected exercises 6 University question papers with answers 7 Objective type questions for practice

*Mathematics - I For the first year Gujarat Technological University (GTU)* Ravish R Singh & Mukul Bhatt, Mathematics I has been written specifically for the first year Gujarat Technological University GTU syllabus and students of all programs of engineering since first semester mathematics is common to all branches It covers Indeterminate Forms Gamma and Beta Functions Applications of Definite Integrals Sequences and Series Taylor s and Maclaurin s Series Fourier Series Partial Derivatives Multiple Integrals and Matrices for the benefit of the students

**Engineering Physics, 3E Gtu** G Vijayakumari,2009-11-01 Engineering Physics Has Been Written Keeping In Mind The First Year Engineering Students Of All Branches Of Various Indian Universities Its Coverage Is Comprehensive Giving Greatest Attention To The Prescribed Syllabus Continuity In The Development Of The Subject Matter Is Maintained Throughout The Text And The Style Of Presentation Remains Same For All The Chapters The Third Edition Provides More Examples With Solutions It Also Offers University Question Papers Of Recent Years With Model Solutions

**Mat - Prev. Papers Solved ( R-971)** Rph Editorial Board,2011-01-01

*Port and Harbour Engineering* Adrian Jarvis,2016-12-05 During the 19th century the engineering of ports and harbours became a large and specialised branch of the profession This development began in ports in physically difficult locations and may be particularly identified with the growth of the Port of Liverpool Stimulated by the arrival of ever larger steamships and the heavy investment in port facilities that they demanded it spread around much of the world The opening papers give examples of what could be achieved in antiquity the following ones set out the advances in design and technology from 1700 to the start of this century and note some of the failures and recurrent problems They also illustrate the critical importance of political and economic factors in determining what the engineers achieved

**UGCNET** Rph Editorial Board,2020-10 This immensely valuable book of Solved Previous Years Papers of Environmental Sciences is specially published for the aspirants of UGCNET Junior Research Fellowship and Assistant Professor Eligibility Exam The book comprises several Solved Previous Papers of UGCNET with selected detailed Explanations The book will also serve as a true test of your studies and preparation with actual examquestions The book is aimed to help you prepare well and sharpen your problemsolving skills by practising through numerous questions in these solved papers and face the exam with confidence successfully

**Engineering Mathematics-II** A. Ganeshi,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

**Programming in C & C++** S S Khandare,2008 This book is exclusively for the students of B E Tech B Sc M Sc B C A B B A and also useful for C DAC And DOE In this book the basic programming are presented In this improved edition all the programes are provided with results and two new chapters on Networking and Exercises and Projects has been included

*Calculus* Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock,1997-10-24 A revision of the best selling innovative Calculus text on the market Functions are presented graphically numerically algebraically and verbally to give readers the benefit of alternate interpretations The text is problem driven with exceptional exercises based on real world applications from engineering physics life sciences and economics Revised edition features new sections on limits and continuity limits I Hopital s Rule and relative growth rates and hyperbolic functions

**Basic Electrical Engineering** Ramana Pilla | HD Mehta,2022-01-03 This book is designed based on revised syllabus of Gujarat Technological University Gujarat AICTE model curriculum for under graduate B Tech BE students of all branches those who study Basic Electrical Engineering as one of the subject in their curriculum The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits Network Theorems Resonance Three phase circuits Transformers Electrical Machines and Electrical Installation

**Chemical Engineering Design** Gavin Towler, Ray Sinnott, 2012-01-25 Chemical Engineering Design Second Edition deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout this edition has been specifically developed for the U S market It provides the latest US codes and standards including API ASME and ISA design codes and ANSI standards It contains new discussions of conceptual plant design flowsheet development and revamp design extended coverage of capital cost estimation process costing and economics and new chapters on equipment selection reactor design and solids handling processes A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for downloading from the companion website Extensive instructor resources including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors This text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken plus graduates and lecturers tutors and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors New to this edition Revised organization into Part I Process Design and Part II Plant Design The broad themes of Part I are flowsheet development economic analysis safety and environmental impact and optimization Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects New discussion of conceptual plant design flowsheet development and revamp design Significantly increased coverage of capital cost estimation process costing and economics New chapters on equipment selection reactor design and solids handling processes New sections on fermentation adsorption membrane separations ion exchange and chromatography Increased coverage of batch processing food pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards including API ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for downloading from the companion website Extensive instructor resources 1170 lecture slides plus fully worked solutions manual available to adopting instructors

**Digital Electronics** Anil K. Maini, 2007-09-27 The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer industrial electronics communications embedded systems computers security and military equipment Devices used in applications such as these are constantly decreasing in size and employing more complex technology It is therefore essential for engineers and students to understand the fundamentals implementation and application principles of digital electronics devices and integrated circuits This is so that they can use the most appropriate and effective technique to suit their technical need This book provides practical and comprehensive coverage of digital electronics bringing together information on fundamental theory operational aspects and potential applications With worked problems examples and review questions for each chapter Digital Electronics includes information on number systems binary codes digital arithmetic logic gates and families and Boolean algebra an in depth look at multiplexers de multiplexers devices for arithmetic operations flip flops and related devices counters and registers and data conversion circuits up to date coverage of recent application fields such as programmable logic devices microprocessors microcontrollers digital troubleshooting and digital instrumentation A comprehensive must read book on digital electronics for senior undergraduate and graduate students of electrical electronics and computer engineering and a valuable reference book for professionals and researchers

*Discrete Mathematics for Computer Science* Gary Haggard, John Schlipf, Sue Whitesides, 2006 Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD ROM An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language Through a wealth of exercises and examples you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career

**Basic Electrical Engineering** Mehta V.K. & Mehta Rohit, 2008 For close to 30 years Basic Electrical Engineering has been the go to text for students of Electrical Engineering Emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject Divided into 17 chapters the book covers all the major topics such as DC Circuits Units of Work Power and Energy Magnetic Circuits fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand

**Discrete Mathematical Structures for Computer Science** Bernard Kolman, Robert C. Busby, 1987 This text has been designed as a complete introduction to discrete mathematics primarily for computer science majors in either a one or two semester course The topics addressed are of genuine use in computer science and are presented in a logically coherent fashion The material has been organized and interrelated to minimize the mass of definitions and the abstraction of some of the theory For example relations and directed graphs are treated as two aspects of the same mathematical idea Whenever possible each new idea uses previously encountered material and then developed in such a way that it simplifies the more complex ideas that follow

*Principles of Management* David S. Bright, Anastasia H. Cortes, Eva Hartmann, 2023-05-16 Black white print Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management This is a traditional approach to management using the leading planning organizing and controlling approach Management is a broad business discipline and the Principles of Management course covers many management areas such as human resource management and strategic management as well as behavioral areas such as motivation No one individual can be an expert in all areas of management so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters

Qualitative Research Methods for the Social Sciences Bruce Lawrence Berg, Howard Lune, 2014 Qualitative Research Methods collection organization and analysis strategies This text shows novice researchers how to design collect and analyze qualitative data and then present their results to the scientific community The book stresses the importance of ethics in research and taking the time to properly design and think through any research endeavor

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