

KAKINADA INSTITUTE OF ENGINEERING & TECHNOLOGY
B.TECH (R20)-MODEL QUESTION PAPER
I B.Tech I Semester Regular Examinations, July-2021
M-I IMPORTANT QUESTIONS

UNIT-I

1. Test the convergence of the series $\sum (\sqrt{n^4 + 1} - \sqrt{n^4 - 1})$
2. Test the convergence of the series $\frac{1}{2} + \frac{\sqrt{2}}{3} + \frac{\sqrt{2}}{8} + \dots + \frac{\sqrt{n}}{n^2-1} + \dots$
3. Test the convergence of the series $\sum \frac{2.5.8\dots(3n-1)}{1.5.9\dots(4n-3)}$
4. State D'Alembert's ratio test and test the convergence of the series $\sum \frac{1.3.5\dots(2n+1)}{2.5.8\dots(3n+2)}$
5. Test the convergence of the series i) $\sum \tan\left(\frac{1}{n}\right)$ ii) $\sum \frac{1}{n^n}$
6. Test the convergence of the series $\frac{1}{2\sqrt{1}} + \frac{x^2}{3\sqrt{2}} + \frac{x^4}{4\sqrt{3}} + \dots + \frac{x^{2n-2}}{\sqrt{(n+1)}} + \dots$
7. Test the convergence of the series $\sum_{n=1}^{\infty} \left(1 + \frac{1}{n}\right)^{-n^2}$
8. State Leibnitz's test and test the convergence of the series $\sum \frac{(-1)^n}{\sqrt{(n+1)(n+2)}}$
9. Verify Rolle's theorem for the function $f(x) = (x - a)^m(x - b)^n$ in $[a, b]$
10. Verify Rolle's theorem $f(x) = x^2 - 2x - 3$ in the interval $(-1, 3)$
11. Prove that $\frac{b-a}{1+b^2} < \tan^{-1} b - \tan^{-1} a < \frac{b-a}{1+a^2}$ where $0 < a < b$
12. Show that for any $x > 0$, $1 + x < e^x < 1 + xe^x$
13. Verify Cauchy's mean value theorem for $(x) = e^x$, $(x) = e^{-x}$ in $[3, 7]$
14. Verify Taylor's theorem for $(x) = (1 - x)^2$ with Lagrange's form of remainder up to two terms in $[0, 1]$.

Engineering Mathematics Question Papers Jntu

Dr. A. Ramakrishna Prasad



Engineering Mathematics Question Papers Jntu:

Engineering Mathematics Volume - I (For 1st Semester of JNTU, Kakinada) Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N., Engineering Mathematic *Engineering Mathematics - I [JNTU Hyderabad]* TKV Iyengar et al., This is the nineteenth edition of the book Engineering Mathematics I The earlier editions have received positive response from the teachers and the students This text book has been written strictly according to the revised syllabus R18 2018 19 of first year First Semester B Tech students of JNTU Hyderabad In this edition some topics have been updated The previous question paper problems have been included at appropriate places For the benefit of the students previous GATE questions are included at the end of each chapter The topics has been made as simple as possible and in some instances the detailed explanation is given to understand content with a minimum effort **Engineering Mathematics**

Volume - II (For 2nd Year of JNTU, Anantapur) Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N., Unit I 1 Real And Complex Matrices And Linear System Of Equations 2 Eigen Values And Eigen Vectors 3 Quadratic Forms Unit Ii 4 Solution Of Algebraic And Transcendental Equations 5 Interpolation 6 Curve Fitting Unit Iii 7 Numerical Differentiation And Integration 8 Numerical Solution Of Ordinary Differential Equations Unit Iv 9 Fourier Series 10 Fourier Transforms Unit V 11 Partial Differential Equations **Engineering Mathematics - II: [Linear Algebra and Numerical Methods] (JNTUK)** Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. PRASAD, S. RANGANATHAM & DR. B. KRISHNA GANDHI, This Textbook Engineering Mathematics II Linear Algebra and Numerical Methods has been written strictly according to the revised syllabus R20 of the First year Second Semester B Tech students of Jawaharlal Nehru Technological University Kakinada Previous Question Paper problems at appropriate places and GATE 2020 Questions at the end of each chapter for the benefit of the students The treatment of all topics has been made as simple as possible and in some instances with a detailed explanation as the book is meant to be understood with a minimum effort on the part of the reader However as Mathematics is a subject to be understood and practised the students are advised to practice the exercises

Engineering Mathematics Volume - II (Mathematical Methods) (For 1st Year, 1st Semester of JNTU, Kakinada) Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N., Engineering Mathematic Engineering Mathematics - I: for B.Tech. First Year (First Semester) Students of JNTU Kakinada Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. PRASAD, S. RANGANATHAM & DR. B. KRISHNA GANDHI, Engineering Mathematics I Calculus and Differential Equations has been written strictly according to the revised syllabus R20 of the First year First Semester B Tech students of Jawaharlal Nehru Technological University Kakinada Topics are explained in a streamlined manner with minimal error precision as the primary goal of this book is to make students understand the concepts with minimum effort Additional Previous GATE Questions at the end of each chapter with Previous Question Paper problems makes this book an ideal choice for undergraduate students Engineering Mathematics - II: for B.Tech. First Year (Second Semester) Students of JNTU

Hyderabad Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. PRASAD, S. RANGANATHAM & DR. B. KRISHNA GANDHI, Engineering Mathematics II has been written strictly according to the revised syllabus R18 2018 19 of the First year Second Semester B Tech students of JNTU Hyderabad It covers differential equations linear differential equations multiple integrations vector differentiation and integration lucidly and tend to enclose Previous Question Paper issues at suitable places and conjointly Previous GATE Questions at the end of every chapter for the benefit of the students **Engineering Mathematics Volume - III (Statistical and Numerical Methods) (For 1st Year - 2nd Semester of JNTU, Hyderabad)** Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N., Engineering Mathematics Engineering Mathematics Volume III (Linear Algebra and Vector Calculus) (For 1st Year, 2nd Semester of JNTU, Kakinada) Iyenger T.K.V./ Gandhi, Krishna B./ Ranganatham S. & Prasad M.V.S.S.N., Engineering Mathematics Engineering Mathematics -IV- Complex Variables and Fourier Analysis JNTU Dr. T K V Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi, This is the Second edition of the book Engineering Mathematics Volume IV Complex Variables and Fourier Analysis This text book has been written strictly according to the revised syllabus R 16 2016 17 of B Tech II Year First Semester students of Jawaharlal Nehru Technological University Hyderabad The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book is meant to be understood with a minimum effort on the part of the reader However as Mathematics is a subject to be understood and practiced the students are advised to practice the exercises

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KREYSZIG'S ENGINEERING MATHEMATICS-1: AS PER JNTU SYLLABUS Dr. A. Ramakrishna Prasad, 2009-07-01 Special Features Strictly as per syllabus of JNTU Question bank from last five year papers included Large number of solved problems and examples Stepwise derivations of complex equations and proofs of theorems Applications of the concepts explained in a lucid manner Summary provided for quick review of concepts at the end of the chapter Last five year questions given as an Appendix at the end of the book Pedagogy 200 illustrations 800 concept check questions 300 solved and explanatory examples 250 review questions and problems About The Book An attempt is made to fine tune the components of this book keeping in view the requirements of the undergraduate curriculum of JNTU This book is a modest effort to enhance the

conceptual understanding of the learners and to improve the application capability in their respective branches of Engineering and Technology This user friendly textbook consists of relevant illustrations concepts and additional information It is also helpful for the teachers and researchers to develop qualitative mathematical ability In tune with the needs of the students adequate care has been taken to incorporate all the necessary topics Journal of the Indian Geophysical Union Indian Geophysical Union,2007 *Engineering Mathematics - III: For JNTU* Rukmangdachary,2010 Designed for the core papers Engineering Mathematics II and III which students take up across the second and third semesters Engineering Mathematics III For JNTU offers detailed theory with a wide variety of solved examples with reference to engineering applications along with over 1 000 objective type questions that include multiple choice questions fill in the blanks match the following and true or false statements **Engineering Mathematics - III [JNTU Kakinada]** TKV Iyengar et al., In this book vector differential calculus is considered which extends the basic concepts of ordinary differential calculus such as continuity and differentiability to vector functions in a simple and natural way The new concepts of gradient divergence and curl are introduced Line surface and volume integrals which occur frequently in connection with physical and engineering problems are defined Three important vector integral theorems Gauss divergence theorem Green s theorem in plane and Stokes theorem are discussed The idea of Laplace transform to develop some useful results has been introduced also demonstrated how the Laplace transform technique is used in solving a class of problems in differential equations Fourier series is an infinite series representation of a periodic function in terms of sines and cosines of an angle and its multiples How Fourier series is useful to solve ordinary and partial differential equations particularly with periodic functions appearing as non homogeneous terms has been discussed This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students **Engineering Mathematics -I (Matrices and Calculus): For B.Tech First year First Semester students of JNTU, Hyderabad** Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi, This edition is an improvement on the earlier edition made with some topics have been updated and inclusion of previous Question Paper problems at appropriate places and Previous GATE Questions at the end of each chapter for the benefit of the students The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader **Text Book Of Engineering Mathematics (Common To All Branches Of Jntu)** Debashis Dutta,2006 This Jntu Hyderabad Edition Is Designed For The Core Course On The Subject And Presents A Detailed Yet Simple Treatment Of The Fundamental Principles Given In The Syllabus All Basic Concepts Have Been Comprehensively Explained And Illustrated Through A Variety Of Solved Examples Instead Of Too Much Mathematically Involved Illustrations A Step By Step Approach Has Been Followed Throughout The Book Unsolved Problems Objective And Review Questions Along With Short Answer Questions Have Been Also Included For A Thorough Grasp Of The Subject

Graded Problems Have Been Included The Book Would Serve As An Excellent Text For The Subjects Mathematics I Common To All Branches Mathematics Ii Mathematical Methods Probability And Statistics And Partly For Numerical Methods The Students Are Advised To Refer The Syllabus For The Respective Branches As This Has Been Framed Branch Wise And For The Need In A Particular Semester **Engineering Mathematics Vol-1** T. K. V. Iyengar,B.Krishana Gandhi,S.Ranganatham & M.V.S.S.N.Parsad,2008 It gives us great pleasure to Bringout the seventh edition of the book Engineering Mathematics Vol I The earlier editions have received positive response from the teachers and the students This Textbook has been written strictly according to the revised syllabus 2007 2008 of first year B Tech students of JNTU A the end of Textbook we have included the question papers to enable the students to gain greater confidence in facing the examination

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