

Code No: 157AM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, January/February - 2023

**ARTIFICIAL INTELLIGENCE**  
(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A**

(25 Marks)

- |      |  |     |
|------|--|-----|
| 1.a) | What is well defined problem?                            | [2] |
| b)   | Define search tree and write its properties.             | [3] |
| c)   | What is game tree?                                       | [2] |
| d)   | Explain evaluation function.                             | [3] |
| e)   | Define atomic and complex sentence in first order logic. | [2] |
| f)   | What is First order logic?                               | [3] |
| g)   | Define temporal constraints.                             | [2] |
| h)   | Explain classical planning.                              | [3] |
| i)   | Define over fitting.                                     | [2] |
| j)   | State Baye's rule.                                       | [3] |

**PART – B**

(50 Marks)

- |           |   |       |
|-----------|---|-------|
| 2.a)      | What is simple problem solving agent? Explain it briefly.               |       |
| b)        | Discuss Greedy best first search algorithm.                             | [5+5] |
| <b>OR</b> |   |       |
| 3.a)      | What is bidirectional search ? Explain in detail.                       |       |
| b)        | Explain Breadth First Search algorithm with an example.                 | [5+5] |
| 4.a)      | Elaborate on knowledge based agents.                                    |       |
| b)        | Explain CSP problem for job scheduling.                                 | [5+5] |
| <b>OR</b> |   |       |
| 5.a)      | What is Resolution? Explain Resolution algorithm for Proposition logic. |       |
| b)        | Explain backtracking searching technique.                               | [5+5] |
| 6.a)      | Explain quantifier estimates and its types.                             |       |
| b)        | Analyze the steps in knowledge-engineering process.                     | [5+5] |
| <b>OR</b> |   |       |
| 7.a)      | Explain reasoning with default information.                             |       |
| b)        | Write simple forward chaining algorithm.                                | [5+5] |

# Engineering Mathematics 1 Question Papers Jntu

**Dr. T.K.V. Iyengar, Dr. M.V.S.S.N.  
PRASAD, S. RANGANATHAM & DR. B.  
KRISHNA GANDHI**

## **Engineering Mathematics 1 Question Papers Jntu:**

**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 - 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 - 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 -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

*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 Volume - II (Numerical Methods and Complex Variables) (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 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 - 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 E.**

Rukmangadachari, 2010-09 Mathematics lays the basic foundation for engineering students to pursue their core subjects In Engineering Mathematics III the topics have been dealt with in a style that is lucid and easy to understand supported by illustrations that enable the student to assimilate the concepts effortlessly Each chapter is replete with exercises to help the student gain a deep insight into the subject The nuances of the subject have been brought out through more than 300 well chosen worked out examples interspersed across the book **EAMCET PHYSICS English Medium VIKRAM**

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**Journal of the Indian Geophysical Union** Indian Geophysical Union, 2007 **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 **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

**Engineering Mathematics Vol-1** T. K. V. Iyengar, B. Krishna Gandhi, S. Ranganatham & M.V.S.S.N. Prasad, 2008 It gives us great pleasure to bring out 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 At the end of Textbook we have included the question papers to enable the students to gain greater confidence in facing the examination

**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 - I: For PTU* Babu Ram, 2011 Engineering Mathematics I For PTU is the only book in the market catering to the needs of the latest university syllabus revised in 2011 of Punjab Technical University It is an ideal companion for students and covers all the topics taught to first year students of PTU as a part of their Engineering Mathematics I course With more than 500 solved problems and over 300 practice exercises this edition will help students tackle their examinations with ease Over the last three years more than 30 questions from this book have appeared in the university question paper

**Engineering Mathematics: (As Per JNTU Syllabus) Volume I** G. Shanker Rao, 2013-12-30 The book is designed to serve as a textbook for the students of engineering The book spread in fifteen chapters broadly discusses Convergence and divergence of the infinite series Mean value theorems and expansions of functions Functions of several variables Curvature evolutes and envelopes Curve tracing Lengths curves volumes and surfaces of revolution Multiple integrals First order and first degree differential equations Orthogonal trajectories and other geometrical application Higher order differential equations Linear differential equations with constant coefficients Applications of differential equations Laplace transforms Vector calculus gradient divergence and curl of

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