

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

Jntu Previous Question Papers

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Applied Physics 3e : For the Students of JNTU Hyderabad Dr. T.V.S Arun Murthy & Dr. M N Avadhanula, The book is written to provide students with a distinct source of material Their requirements are given top priority and the material is fashioned in a student friendly style This book explains basic principles of quantum physics and band theory of solids It also presents fundamental concepts related to the dielectric magnetic and energy materials in a concise and very simple way to easily grasp the concept Each chapter is divided into smaller parts and sub headings are provided to make the reading a pleasant journey from one interesting topic to another important topic It offers ample coverage of Physics and Solids Semiconductors and Devices Dielectric Magnetic and Energy Materials Nanotechnology and Laser and Fibre Optics

COMPUTER ORIENTED STATISTICAL METHODS (FOR CSE/IT) (SEMESTER III) JNTU Dr. T.K.V Iyengar, B. Krishna Gandhi, S. Ranganatham & Dr. M.V.S.S.N. Prasad, Computer Oriented Statistical Methods has been written strictly according to the revised syllabus R 18 of B Tech Second year I Semester students of Jawaharlal Nehru Technological University Hyderabad with effect from 2018 19 academic year

Laplace Transforms, Numerical Methods & Complex Variables T. K. V. Iyengar, B. Krishna Gandhi, S. Ranganatham & M.V.S.S.N. Prasad, Laplace Transforms Numerical Methods Complex Variables

Differential Equations and Vector Calculus Dr.T.K.V. Iyengar & Dr B. Krishna Gandhi & S. Ranganatham & Dr M.V.S.S.N. Prasad, In this book how to solve such type equations has been elaborately described 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 This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the

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A

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Journal of the Indian Geophysical Union Indian Geophysical Union, 2007 *Probability and Statistics* T K V. Iyengar, 2011 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 - 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 *Defence and Strategic Studies Previous Question Papers NET JRF* Mocktime Publication, Defence and Strategic Studies Previous Question Papers NET JRF UGC CBSE Net Jrf previous year solved papers net jrf paper 1 and paper 2 net jrf paper I and paper II teaching and research aptitude paper 1 paper I net jrf exam guide manual books net jrf previous year questions mcq **NET JRF English Solved Question bank based on Previous Papers With Instant Answer Key** Mocktime Publication, NET JRF English Solved Question bank based on Previous Papers With Instant Answer Key Nta Net jrf English previous year solved question papers Ugc Net jrf paper 1 teaching and research methodology net paper 1 by kvs madaan upkar truman arihant cbse net paper 1 practice set in hindi ugc net english exam guide Environmental Sciences Previous Question Papers NET JRF Mocktime Publication, Environmental Sciences Previous Question Papers NET JRF UGC CBSE Net Jrf previous year solved papers net jrf paper 1 and paper 2 net jrf paper I and paper II teaching and research aptitude paper 1 paper I net jrf exam guide manual books net jrf previous year questions mcq **Home Science Previous Question Papers NET JRF** Mocktime Publication, Home Science Previous Question Papers NET JRF UGC CBSE Net Jrf previous year solved papers net jrf paper 1 and paper 2 net jrf paper I and paper II teaching and research aptitude paper 1 paper I net jrf exam guide manual books net jrf previous year questions mcq NET JRF English Previous Years Questions With Instant Answer Key Mocktime Publication, NET JRF English Previous Years Questions With Instant Answer Key net english literature solved papers net english previous year solved question papers Net PGT Lecturer english previous papers guide Net English guide book notes nta net paper 1 book Electronic Science Previous Question Papers NET JRF Mocktime Publication, Electronic Science Previous Question Papers NET JRF UGC CBSE Net Jrf previous year solved papers net jrf paper 1 and paper 2 net jrf paper I and paper II

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