

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] |
| OR | | |
| 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] |
| OR | | |
| 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] |
| OR | | |
| 7. a) | Explain reasoning with default information. | |
| b) | Write simple forward chaining algorithm. | [5+5] |

Mtech Question Papers Jntu

S. Rao,R. Durgaiah

Mtech Question Papers Jntu:

Fluid Mechanics And Machinery Durgaiah D. Rama, 2007 This Book Presents A Thorough And Comprehensive Treatment Of Both The Basic As Well As The More Advanced Concepts In Fluid Mechanics The Entire Range Of Topics Comprising Fluid Mechanics Has Been Systematically Organised And The Various Concepts Are Clearly Explained With The Help Of Several Solved Examples Apart From The Fundamental Concepts The Book Also Explains Fluid Dynamics Flow Measurement Turbulent And Open Channel Flows And Dimensional And Model Analysis Boundary Layer Flows And Compressible Fluid Flows Have Been Suitably Highlighted Turbines Pumps And Other Hydraulic Systems Including Circuits Valves Motors And Ram Have Also Been Explained The Book Provides 225 Fully Worked Out Examples And More Than 1600 Questions Including Numerical Problems And Objective Questions The Book Would Serve As An Exhaustive Text For Both Undergraduate And Post Graduate Students Of Mechanical Civil And Chemical Engineering Amie And Competitive Examination Candidates As Well As Practising Engineers Would Also Find This Book Very Useful

Operations Research N.V.S Raju, 2019-09-03 This book Operations Research Theory and Practice provides various concepts theoretical and practical knowledge and develops the techno managerial skills in the field of engineering All the angles and approaches of operations applicable to both industrial and institutional needs are presented It also provides an insight into the historical development of Operations Research Examples and problems from usual situations that occur in industries are presented wherever necessary Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

COMPUTER AIDED DESIGN AND MANUFACTURING LALIT NARAYAN, K., MALLIKARJUNA RAO, K., SARCAR, M.M.M., 2008-05-05 The impact of the technology of Computer Aided Design and Manufacturing in automobile engineering marine engineering and aerospace engineering has been tremendous Using computers in manufacturing is receiving particular prominence as industries seek to improve product quality increase productivity and to reduce inventory costs Therefore the emphasis has been attributed to the subject of CAD and its integration with CAM Designed as a textbook for the undergraduate students of mechanical engineering production engineering and industrial engineering it provides a description of both the hardware and software of CAD CAM systems The Coverage Includes Principles of interactive computer graphics Wireframe surface and solid modelling Finite element modelling and analysis NC part programming and computer aided part programming Machine vision systems Robot technology and automated guided vehicles Flexible manufacturing systems Computer integrated manufacturing Artificial intelligence and expert systems Communication systems in manufacturing PEDAGOGICAL FEATURES CNC program examples and APT program examples Review questions at the end of every chapter A comprehensive Glossary A Question Bank at the end of the chapters

Engineering Mechanics S. Rao, R. Durgaiah, 2005-11 This book covers all the topics essential for a first course in Engineering Mechanics Written keeping in mind the needs of undergraduate engineering students and those appearing for

competitive examinations it covers the theoretical concepts and operations solid mechanics in a lucid and well illustrated manner

Measurement of Engineering Properties of Soils E. S. Reddy,2002 This Book Highlights The Procedures For 30 Tests Used To Measure The Engineering Properties Of Soil In Both Laboratory And Field Including Dynamic Testing Of Soils All The Test Procedures Are Based On Indian Standard Practice And Are Very Close To Astm Standards Features Of This Book Include Test Procedures And Tabular Forms For A Maximum Number Of Field And Laboratory Tests Classification Of The Soil Tests Based On Type Of Project And Type Of Soil A Set Of Questions Is Presented At The End Of Each Chapter For Self Examination For Each Test Theoretical Principles And The Precautions To Be Followed During The Test Are Explained This Book Will Be Useful To B Tech B E Civil Engineering And M E M Tech Geotechnical Engineering Students As Laboratory Manual And Reference Book It Is Hoped That This Book Will Also Be Useful To Field Engineers As Handbook In Soil Mechanics As It Helps In Deciding The Test Programme For A Given Project Similarly The Book Will Be Helpful For Quality Control Engineers

A Textbook of Electric Power Distribution Automation Dr. M.K. Khedkar,Dr. G.M. Dhole,2010

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