

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]

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Clemens Wendtner



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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

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Core Java Manish Soni, 2024-11-13 Core Java is the backbone of modern software development and mastering its core concepts is essential for any aspiring programmer whether you re just starting your journey or seeking to deepen your knowledge This book Core Java is designed to be your comprehensive guide to the fundamental principles of Java programming In the ever evolving landscape of technology Java remains a constant Its versatility and platform independence have made it the language of choice for a wide range of applications from mobile apps to web services and enterprise systems Whether you re a student a professional developer or an enthusiast eager to learn this book is crafted to meet your needs Our journey through the world of Java begins with the basics We ll guide you through setting up your development environment writing your first lines of code and understanding the syntax that underpins the language From there we ll delve into the rich world of data types control structures and object oriented programming providing a solid foundation upon which to build your Java expertise As we progress you ll explore advanced topics such as multithreading I O and exception handling gaining the skills necessary to develop robust and efficient Java applications We ll demystify object oriented design principles and guide you in applying them to your projects Java isn t just about syntax it s about building real world applications You ll learn how to work with databases networked systems and graphical user interfaces giving you the tools to create software that can truly make an impact Throughout this book you ll find practical examples and hands on exercises to reinforce your understanding and hone your programming skills Java is a language of practice and our aim is to equip you with the knowledge and experience needed to tackle real world challenges confidently

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

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