

3 Hours

Note:

- (i) Each question carries 20 marks
- (ii) Question 1 is compulsory
- (iii) Attempt any three (3) from the remaining questions
- (iv) Assume suitable data wherever required

Q1. Attempt any four (4) questions from the following:

[20]

- (a) Give PEAS description for an Autonomous Mars Rover. Characterize its environment.
- (b) Give the initial state, goal test, successor function, and cost function for the following problem
"You have to colour a planar map using only 4 colours, in such a way that no two adjacent regions have the same colour".
- (c) Draw and explain architecture of Expert System.
- (d) Explain Hill-climbing algorithm with an example.
- (e) Convert the following propositional logic statement into CNF
(i) $A \rightarrow (B \leftrightarrow C)$

Q2. (a). Explain decision tree learning with an example.

[10]

(b) Write first order logic statements for following statements:

[10]

- (i) Horses, cows, and pigs are mammals.
- (ii) Bluebird is a horse.
- (iii) Whoever can read is literate.
- (iv) Every tree in which any aquatic bird sleeps is beside some lake.
- (v) Anything anyone eats and is not killed by is food.

Q3. (a) Design a planning agent for a Blocks World problem. Assume suitable initial state and final state for the problem.

[10]

(b) Consider a situation in which we want to reason about the relationship between smoking and lung cancer. Intuitively, we know that whether or not a person has cancer is directly influenced by whether she is exposed to second-hand smoke and whether she smokes. Both of these things are affected by whether her parents smoke. Cancer reduces a person's life expectancy.

- (i) Draw the Bayesian network.
- (ii) How many independent values are required to specify all the conditional probability tables (CPTs) for your network?

[10]

Q4. (a) Compare Greedy Best first search and A* search algorithms based on performance measure with justification: Complete, Optimal, Time and Space complexity.

[10]

(b) Write a pseudocode for alpha-beta algorithm. Apply alpha-beta pruning on example given in Figure 1 considering first node as max.

[4+6]

01, 02, 04, 05, 06, 07, 08,
11, 12, 13, 14, 15, 16
19, 20, 21, 22, 23

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SB Merriam



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Table of Contents Mumbai University Question Papers

1. Understanding the eBook Mumbai University Question Papers
 - The Rise of Digital Reading Mumbai University Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mumbai University Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mumbai University Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mumbai University Question Papers
 - Personalized Recommendations
 - Mumbai University Question Papers User Reviews and Ratings
 - Mumbai University Question Papers and Bestseller Lists

5. Accessing Mumbai University Question Papers Free and Paid eBooks
 - Mumbai University Question Papers Public Domain eBooks
 - Mumbai University Question Papers eBook Subscription Services
 - Mumbai University Question Papers Budget-Friendly Options
6. Navigating Mumbai University Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mumbai University Question Papers Compatibility with Devices
 - Mumbai University Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mumbai University Question Papers
 - Highlighting and Note-Taking Mumbai University Question Papers
 - Interactive Elements Mumbai University Question Papers
8. Staying Engaged with Mumbai University Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mumbai University Question Papers
9. Balancing eBooks and Physical Books Mumbai University Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mumbai University Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mumbai University Question Papers
 - Setting Reading Goals Mumbai University Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mumbai University Question Papers
 - Fact-Checking eBook Content of Mumbai University Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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