Code.No: RR411206

RR

SET-1

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
ARTIFICIAL INTELLIGENCE
(INFORMATION TECHNOLOGY)

Time: 3hours   Max.Marks:80

Answer any FIVE questions
All questions carry equal marks
- - -

1. a) Explain the different control strategies used in problem solving.
   b) Discuss the factors determining the choice of direction for a particular problem.
                                                                                    [8+8]

2. Discuss the following in detail:
           a)   Hill Climbing.
           b)   Best- First Search.
           c)   Constraint satisfaction.   [6+5+5]

3. Discuss in detail about forward Vs Backward reasoning.   [16]

4. a) Suggest a schematic network to describe the furniture in a house. Include all the normally found items.
   b) Explain the algorithm for resolution in predicate logic.   [8+8]

5. a) Discuss the problems that arise in implementing non-monotonic reasoning in problem-solving programs.
   b) Describe Breadth First Search and Depth First Search techniques.   [8+8]

6. a) Explain Bayes theorem? Explain how Bayes theorem is useful for the problem of letter identification.
   b) Explain the natural language processing methods.   [8+8]

7. a) What is planning? Explain the various solution strategies of planning.
   b) Explain goal stack planning and hierarchical planning?   [8+8]

8. a) Explain about decision trees in learning.
   b) Explain Winston's learning program.   [8+8]

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SET-2

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
ARTIFICIAL INTELLIGENCE
(INFORMATION TECHNOLOGY)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1. Discuss in detail about forward Vs Backward reasoning. [16]

2. a) Suggest a schematic network to describe the furniture in a house. Include all the normally found items.
   b) Explain the algorithm for resolution in predicate logic. [8+8]

3. a) Discuss the problems that arise in implementing non-monotonic reasoning in problem-solving programs.
   b) Describe Breadth First Search and Depth First Search techniques. [8+8]

4. a) Explain Bayes theorem? Explain how Bayes theorem is useful for the problem of letter identification.
   b) Explain the natural language processing methods. [8+8]

5. a) What is planning? Explain the various solution strategies of planning.
   b) Explain goal stack planning and hierarchical planning? [8+8]

6. a) Explain about decision trees in learning.
   b) Explain Winston's learning program. [8+8]

7. a) Explain the different control strategies used in problem solving.
   b) Discuss the factors determining the choice of direction for a particular problem.
   [8+8]

8. Discuss the following in detail:
   a) Hill Climbing.
   b) Best- First Search.
   c) Constraint satisfaction. [6+5+5]

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Code.No: RR411206

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SET-3

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
ARTIFICIAL INTELLIGENCE
(INFORMATION TECHNOLOGY)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1. a) Discuss the problems that arise in implementing non-monotonic reasoning in problem-solving programs.
   b) Describe Breadth First Search and Depth First Search techniques. [8+8]

2. a) Explain Bayes theorem? Explain how Bayes theorem is useful for the problem of letter identification.
   b) Explain the natural language processing methods. [8+8]

3. a) What is planning? Explain the various solution strategies of planning.
   b) Explain goal stack planning and hierarchical planning? [8+8]

4. a) Explain about decision trees in learning.
   b) Explain Winston's learning program. [8+8]

5. a) Explain the different control strategies used in problem solving.
   b) Discuss the factors determining the choice of direction for a particular problem.
   [8+8]

6. Discuss the following in detail:
   a) Hill Climbing.
   b) Best- First Search.
   c) Constraint satisfaction. [6+5+5]

7. Discuss in detail about forward Vs Backward reasoning. [16]

8. a) Suggest a schematic network to describe the furniture in a house. Include all the normally found items.
   b) Explain the algorithm for resolution in predicate logic. [8+8]

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Code.No: RR411206

RR

SET-4

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
ARTIFICIAL INTELLIGENCE
(INFORMATION TECHNOLOGY)

Time: 3hours **Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks
- - -

1. a) What is planning? Explain the various solution strategies of planning.
   b) Explain goal stack planning and hierarchical planning? [8+8]

2. a) Explain about decision trees in learning.
   b) Explain Winston's learning program. [8+8]

3. a) Explain the different control strategies used in problem solving.
   b) Discuss the factors determining the choice of direction for a particular problem.
   [8+8]

4. Discuss the following in detail:
   a) Hill Climbing.
   b) Best- First Search.
   c) Constraint satisfaction. [6+5+5]

5. Discuss in detail about forward Vs Backward reasoning. [16]

6. a) Suggest a schematic network to describe the furniture in a house. Include all the normally found items.
   b) Explain the algorithm for resolution in predicate logic. [8+8]

7. a) Discuss the problems that arise in implementing non-monotonic reasoning in problem-solving programs.
   b) Describe Breadth First Search and Depth First Search techniques. [8+8]

8. a) Explain Bayes theorem? Explain how Bayes theorem is useful for the problem of letter identification.
   b) Explain the natural language processing methods. [8+8]

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