NR/RR 320503 | NR/RR | Set No. 2

III B.Tech II Semester Examinations,December 2010
ARTIFICIAL INTELLIGENCE
Common to Electronics And Computer Engineering, Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

⋆ ⋆ ⋆ ⋆ ⋆

1. (a) What are the four properties desirable in any knowledge representation? Explain them in brief. [4+4]
   (b) Taking the organization of your college as an example, represent it in
      i. relational and
      ii. inheritable forms. Compare their merits. [2+2+4]
2. (a) Give a good state space representation for missionaries and cannibals problem.
   (b) What are the chief characteristics of producter system. [8+8]
3. (a) Describe in detail different types of controllers provided in a "ROBOT" . Explain their operation. [4+4]
   (b) Discuss the most important areas where "ROBOT" are better suited than human beings (the comparative advantages). [8]
4. (a) Compare the representations of the sentence. "Dravid Produced a classy innings with his bat"in case grammar and conceptual dependency. [4+4]
   (b) What is Alpha-Beta Pruning? [8]
5. Describe and discuss in detail, the techniques of
   (a) Parameter adjustment
   (b) Macro-operations
   (c) chunking used in problem- solving method of "Learning". Explain the nature of utility problem. [5+5+6]
6. With an example, show how Means-Ends analysis can be applied to solve AI problems? [6+10]
7. (a) What are features of scripts? List down its advantages and disadvantages. [3+2+3]
   (b) Explain the various components involved in a Restaurant Script. [8]
8. (a) What is default logic? Explain with an example. [2+6]
   (b) Briefly explain the following:
      i. Abduction
      ii. Inheritance. [4+4]

⋆ ⋆ ⋆ ⋆ ⋆

NR/RR 320503 | NR/RR | Set No. 4

III B.Tech II Semester Examinations,December 2010
ARTIFICIAL INTELLIGENCE
Common to Electronics And Computer Engineering, Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

⋆ ⋆ ⋆ ⋆ ⋆

1. (a) What are features of scripts? List down its advantages and disadvantages. [3+2+3]
   (b) Explain the various components involved in a Restaurant Script. [8]
2. With an example, show how Means-Ends analysis can be applied to solve AI problems? [6+10]
3. (a) Describe in detail different types of controllers provided in a "ROBOT" . Explain their operation. [4+4]
   (b) Discuss the most important areas where "ROBOT" are better suited than human beings (the comparative advantages). [8]
4. Describe and discuss in detail, the techniques of
   (a) Parameter adjustment
   (b) Macro-operations
   (c) chunking used in problem- solving method of "Learning". Explain the nature of utility problem. [5+5+6]
5. (a) What is default logic? Explain with an example. [2+6]
   (b) Briefly explain the following:
      i. Abduction
      ii. Inheritance. [4+4]
6. (a) What are the four properties desirable in any knowledge representation? Explain them in brief. [4+4]
   (b) Taking the organization of your college as an example, represent it in
      i. relational and
      ii. inheritable forms. Compare their merits. [2+2+4]
7. (a) Give a good state space representation for missionaries and cannibals problem.
   (b) What are the chief characteristics of producter system. [8+8]
8. (a) Compare the representations of the sentence. "Dravid Produced a classy innings with his bat"in case grammar and conceptual dependency. [4+4]
   (b) What is Alpha-Beta Pruning? [8]

⋆ ⋆ ⋆ ⋆ ⋆

NR/RR 320503 NR/RR Set No. 1

III B.Tech II Semester Examinations,December 2010
ARTIFICIAL INTELLIGENCE
Common to Electronics And Computer Engineering, Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

⋆ ⋆ ⋆ ⋆ ⋆

1. With an example, show how Means-Ends analysis can be applied to solve AI problems? [6+10]
2. (a) Give a good state space representation for missionaries and cannibals problem.
   (b) What are the chief characteristics of producter system. [8+8]
3. (a) Describe in detail different types of controllers provided in a "ROBOT" . Explain their operation. [4+4]
   (b) Discuss the most important areas where "ROBOT" are better suited than human beings (the comparative advantages). [8]
4. (a) What are features of scripts? List down its advantages and disadvantages. [3+2+3]
   (b) Explain the various components involved in a Restaurant Script. [8]
5. (a) Compare the representations of the sentence. "Dravid Produced a classy innings with his bat"in case grammar and conceptual dependency. [4+4]
   (b) What is Alpha-Beta Pruning? [8]
6. (a) What are the four properties desirable in any knowledge representation? Explain them in brief. [4+4]
   (b) Taking the organization of your college as an example, represent it in
      i. relational and
      ii. inheritable forms. Compare their merits. [2+2+4]
7. (a) What is default logic? Explain with an example. [2+6]
   (b) Briefly explain the following:
      i. Abduction
      ii. Inheritance. [4+4]
8. Describe and discuss in detail, the techniques of
   (a) Parameter adjustment
   (b) Macro-operations
   (c) chunking used in problem- solving method of "Learning". Explain the nature of utility problem. [5+5+6]

⋆ ⋆ ⋆ ⋆ ⋆

NR/RR 320503 NR/RR Set No. 3

III B.Tech II Semester Examinations,December 2010
ARTIFICIAL INTELLIGENCE
Common to Electronics And Computer Engineering, Computer Science And Engineering

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

Answer any FIVE Questions
All Questions carry equal marks

⋆ ⋆ ⋆ ⋆ ⋆

1. (a) What is default logic? Explain with an example. [2+6]
   (b) Briefly explain the following:
      i. Abduction
      ii. Inheritance. [4+4]
2. (a) What are features of scripts? List down its advantages and disadvantages. [3+2+3]
   (b) Explain the various components involved in a Restaurant Script. [8]
3. (a) Compare the representations of the sentence. "Dravid Produced a classy innings with his bat"in case grammar and conceptual dependency. [4+4]
   (b) What is Alpha-Beta Pruning? [8]
4. Describe and discuss in detail, the techniques of
   (a) Parameter adjustment
   (b) Macro-operations
   (c) chunking used in problem- solving method of "Learning". Explain the nature of utility problem. [5+5+6]
5. With an example, show how Means-Ends analysis can be applied to solve AI problems? [6+10]
6. (a) Describe in detail different types of controllers provided in a "ROBOT" . Explain their operation. [4+4]
   (b) Discuss the most important areas where "ROBOT" are better suited than human beings (the comparative advantages). [8]
7. (a) Give a good state space representation for missionaries and cannibals problem.
   (b) What are the chief characteristics of producter system. [8+8]
8. (a) What are the four properties desirable in any knowledge representation? Explain them in brief. [4+4]
   (b) Taking the organization of your college as an example, represent it in
      i. relational and
      ii. inheritable forms. Compare their merits. [2+2+4]

⋆ ⋆ ⋆ ⋆ ⋆