Roll No. ....

Total Pages : 2

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BT-7/DX
ARTIFICIAL INTELLIGENCE (2006-07)
Paper : IT–473

Time : Three Hours] [Maximum Marks : 100

Note : Attempt *five* questions in all, selecting at least *one* question from each unit.

UNIT–I

1. What do you understand by AI ? Discuss briefly, various problems and techniques of AI. 20

2. Explain the difference briefly between :
   (a) A* and Ao* Alg.
   (b) Min-Max method.
   (c) α–β cut-off method. 7,7,6

UNIT–II

3. What is need of knowledge and knowledge representation in AI ? Discuss various methods of knowledge representation. 2,2,16

4. Explain monotonic and non-monotonic reasoning. Also discuss Truth maintenance system. How truth is maintained in this system ? 6,14

UNIT–III

5. What is Planning and what is its need for AI problem-solving ? Describe, briefly the various methods available. 20

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6. Write explanatory notes on any *three* :
   (a) Genetic Algorithm.
   (b) Learning from Examples.
   (c) Learning from Discovery.
   (d) Learning from Analogy. 7,7,6

UNIT–IV

7. (a) Explain in detail, principles of Natural Language Processing.
   (b) Write a commentary on Robotics. 15,5

8. What are Expert systems ? Write rule-based architecture of expert systems. Also describe knowledge acquisition concepts. 5,10,5

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