

Roll No. ....

**56083**

**MBA 2 Yr. 4th Semester (N.S.)**

**Examination-May, 2015**

**Artificial Intelligence**

**Paper-MBA-415**

**Time : 3 hours**

**Max. Marks : 80**

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Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

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**Note :** Section-A is **compulsory**. In section-B attempt **one** question from each unit. All questions carry equal marks.

**Section-A**

1. Explain the following:
  - (a) Define Agent with a diagram.
  - (b) What is a task environment?

- (c) What are the differences and similarities between problem solving and planning?
- (d) Explain the concept of learning from example.
- (e) Distinguish between state space search and plan space search.
- (f) Define AI.
- (g) What is an Expert System?
- (h) What do you mean by a problem?

## **Section-B**

### **Unit-I**

- 2. Define Artificial Intelligence. Give typical applications of Artificial Intelligence in detail.
- 3. (a) What do you mean by control strategy?  
List the advantages of breadth-first search.

- (b) Elaborate the approaches for AI with examples.

### **Unit-II**

4. What is Hill Climbing? Explain the algorithm. Analyze various problem solving techniques with relevant examples.
5. "Many problems in AI can be viewed as problems of constraint satisfaction, in which the goal is to discover some problem state that satisfies a given set of constraints." Explain.

### **Unit-III**

6. What do you understand by 'knowledge' in AI? How knowledge can be represented for building intelligent AI computer systems?
7. (a) What is conceptual dependency? Give one example.
- (b) Explain issues in knowledge representation in detail.

## Unit-IV

8. What do you understand by Natural Language Processing? Explain the applications of natural language processing in AI.
  
  9. Give the applications of artificial neural networks in detail.
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