

UNIT-IV

8. Explain the process of Natural Language Processing with the help of an example. What are the reasons because of which a natural language is inadequate to draw logical conclusions ?
9. What do you understand by neural networks ? Explain in brief, neural network architecture. Give an example of an expert system based on neural networks.

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Roll No.

56083

**MBA 2 Year 4th Semester (N.S.)
Examination- May, 2016**

ARTIFICIAL INTELLIGENCE

Paper : MBA-415

Time : 3 hours

Max. Marks : 80

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.

Note : Attempt all 8 parts of the 1st question in Section-A. Attempt **four** questions selecting **one** question from each Unit in Section B. All questions carry equal marks.

SECTION - A

1. Explain the following in brief :
- (i) Artificial Intelligence
 - (ii) AI in business

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(iii) Expert system

(iv) Problems in hill climbing

(v) Means-ends Analysis

(vi) Knowledge representation

(vii) Semantic network

(viii) Symbolic reasoning

SECTION - B

UNIT - I

2. (a) Illustrate through suitable example, how AI helps in solving problems.

(b) Describe the essential applicability and utility of state space search in defining a problem.

3. Explain the algorithm of depth first search and breadth first search. Also discuss their relative advantages and disadvantages.

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UNIT - II

4. Explain the term Heuristic Search. List out and discuss the various heuristic search techniques in brief.

5. What do you understand by Problem Reduction ? Discuss the basic elements in different types of problem reduction mechanisms.

UNIT - III

6. (a) Explain different rules and notations used to represent knowledge in predicate logic.

(b) Semantic Networks have been criticized for using ad-hoc representations, arbitrary links and unclear semantics. Comment on the statement.

7. (a) What are frames ? Why are frames useful ? What are the properties of frames ?

(b) Explain the Conceptual Dependency formalism for knowledge representation.

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