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8. What are Neural networks in Artificial Intelligence ? Discuss the issues involved in neural network architecture.
9. What are Artificial neural networks ? Where are they implemented ?

Roll No. ....

**56083**

**M.B.A. 2 Year 4th Sem. (N.S.)**

**Examination-December, 2015**

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

**Section-A**

1. (a) State the relationship between the terms 'Intelligence' and 'knowledge'.
- (b) What is a heuristic function ?

- (c) What are the limitations in using propositional logic to represent the knowledge ?
- (d) What are the differences and similarities between problem solving and planning ?
- (e) Explain the concept of learning from example.
- (f) Distinguish between state space search and plan space search.
- (g) What are the approaches followed to solve AI ?
- (h) Define AI.

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n-B

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2. What are the requirements in a good control strategy to solve problems ? Illustrate the Breadth-First and Depth-First search procedures with suitable examples.

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3. Give complete expert system architecture and explain. Also explain the process of designing expert system to diagnose childhood diseases.

### Unit-II

4. Explain the heuristic search technique. List the drawbacks of a heuristic search technique. Explain the use of Heuristic search technique.
5. What is Problem Reduction in AI? Explain the basic elements in different types of problem reduction mechanisms.

### Unit-III

6. Explain knowledge representation, computable functions and predicates. How can you describe forward versus backward reasoning in representing knowledge?
7. With suitable examples, explain the advantages of script based representation over semantic nets.

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