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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-6th) (2007 to 2010 Batch)**ARTIFICIAL INTELLIGENCE**

Subject Code : BC-601

Paper ID : [B0223]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students has to attempt any FOUR questions.

SECTION-A**I. Answer briefly :**

- (a) What is semantic analysis? Explain.
- (b) List various criteria for success in AI.
- (c) What is breadth first search? How it is different from depth first search?
- (d) What is morphological analysis?
- (e) What is role of knowledge? Explain.
- (f) Discuss role of semantic net in Artificial intelligence.
- (g) Discuss representation and mapping in Artificial intelligence.
- (h) What is representational adequacy?
- (i) List various issues in knowledge representation.
- (j) Explain how an instance and IS-A relationship is represented in Artificial intelligence.

SECTION-B

2. What is need of AI? Explain various AI problems and underlying assumption.
3. Write short notes on the following :
 - (a) Conceptual dependency
 - (b) Scripts
4. What are various production system characteristics? Discuss the various issues involved in the design of search programs.
5. Define knowledge. Compare and contrast procedural knowledge, inferential knowledge and inheritable knowledge.
6. What is frame? Discuss frames as sets and instance. Give examples to support your answer.
7. What is resolution? Discuss the role of resolution in predicate logic.