Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 07

BCA (2010 Batch) (Sem.–6)
ARTIFICIAL INTELLIGENCE
Subject Code : BC-601
Paper ID : [B0223]

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS 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

1) **Write briefly :**

   a) What are the issues in designing a Search Program?

   b) What are the components of Production System?

   c) What do you mean by Backtracking?

   d) What is Frame?

   e) What is Conflict Resolution Strategy?

   f) What do you mean by Predicate Logic?

   g) What do you mean by Unification?

   h) Explain Inference Mechanism.

   i) What do you mean by Semantic Analysis?

   j) What is Heuristic Function?

SECTION - B

2) What is AI? Discuss various AI techniques.

3) What are various Heuristic Search Techniques in AI? Explain.

4) What do you mean by Problem Space? How problem can be defined as State Space Search?

5) Define Knowledge base System. Explain various representation techniques for Knowledge.

6) Write notes on the following :

   a) Expert System

   b) CYC

7) Discuss various approaches for Natural Language Processing.