**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 07**

**BCA (2009 to 2010 Batch)   (Sem.–6)**
# 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 a student has to attempt any FOUR questions.**

## SECTION-A

l. **Answer the following questions briefly:**

a) What is Artificial Intelligence?

b) Define Problem.

c) What is the difference between predicate logic and propositional logic?

d) Name any two weak slot and filler structures.

e) What is monotonic and non-monotonic production system?

f) Represent following in predicate logic.

 "Everyone is loyal to someone".

g) How does heuristics help in searching in Artificial Intelligence?

h) What is Turing Test?

i) List advantages of Depth First Search.

j) What is the purpose of discourse integration in Natural Language Processing?

### SECTION-B

2. Discuss the criteria for success in Al.

3. What is a Production system? What does it consist of?

4. What are the various issues in knowledge representation?

5. Write short note on representing instance and ISA relationship.

6. Write short note on Conceptual Dependency.

7. What is Natural Language Processing? What are the steps in the process of Natural Language Processing? Discuss with an example.