



Code No. : 6216/O/S

**FACULTY OF ENGINEERING**  
**B.E. 4/4 (CSE) I Semester (Old) Examination, July 2014**  
**ARTIFICIAL INTELLIGENCE**

Time: 3 Hours]

[Max. Marks: 75

**Note :** Answer **all** questions from Part – **A** and **any five** questions from Part – **B**.

PART – A		(25 Marks)
1. Define search in state space.		2
2. Explain rational agent.		3
3. Differentiate predicate calculus and propositional calculus.		3
4. Define GINI system.		2
5. How do agents communicate ?		2
6. How do you represent common sense knowledge ?		3
7. What is syntactic ambiguity ?		3
8. What is a decision tree ? Give an example for it.		2
9. Define learning.		2
10. State the advantage of multilayer feed forward network.		3
PART – B		(50 Marks)
11. Explain A* with example and state the advantages of it.		10
12. Explain resolution in predicate calculus.		10
13. Explain reasoning with uncertain information.		10
14. a) Explain Rule Based Learning.		5
b) Explain perceptron in neural network.		5
15. Explain speech recognition model in detail.		10
16. Write short notes on :		
a) Goal Based Agent.		5
b) Unification algorithm.		5
17. a) Explain various phases of NLP.		5
b) Explain rule learning.		5