MIS Number			

COLLEGE OF ENGINEERING, PUNE

(An Autonomous Institute of Govt. of Maharashtra)

End-Semester Examination- Nov 2012

(CT413) ARTIFICIAL INTELLIGENCE

ELECTIVE-I

Class: - B.Tech. (Computer Engineering & Information Technology)

Year: - 2012-13

Semester: - VII

Duration: - 3 hrs.

Max. Marks: - 50

Instructions:

- a) All the Questions are compulsory.
- b) Assume suitable data whenever necessary.
- c) Draw neat figures wherever required
- d) Figures to right indicate full marks
- Q.1 A) Describe the Hierarchical planning technique in detail. State one real [06] time example which will describe the functionality of Hierarchical planning.
 - B) Discuss the performance of Min-max search procedure with waiting [04] for Quiescence variation for any game or puzzle for three players.
- Q.2. A) For each type of Learning Technique state one real time existing [06] example and discuss its performance.
 - B) Natural Language Processing is one of the sub domain in Artificial [04] Intelligence. Justify the given statement with help of two examples.
- Q.3. A) Intelligent Agent is one of the most important component in any [06]

 Artificial Intelligent System. Justify the statement with help of three real time existing examples.
 - B) Explain the importance of Neural Networks with help of two real time [04] examples.

- Q.4. A) Heuristics is a terminology used in Artificial Intelligence Area. What [06] is the need of it? Describe any two Heuristic Search methods.
 - B) What are the differences and similarities between problem solving [04] and planning?
- Q.5. A) Describe the working of A star algorithm for any graph theory [06] application. Also analyze its performance.
 - B) Modify Alpha Beta Cutoffs algorithm for any real time existing game [04] application for 3 players. Discuss the performance of newly devised algorithm for same application.