

Roll no:.....

Name:

SREE BUDDHA COLLEGE OF ENGINEERING, PATTOOR
DEPARTMENT OF ELECTRONICS & COMMUNICATION
II SEMESTER M.TECH EMBEDDED SYSTEMS
MODEL EXAMINATION
TES 2010 - INTELLIGENT EMBEDDED SYSTEMS

Time: 3 hrs

Max Marks: 60

(Answer any *two* questions from each module. Each question carries 10 marks)

MODULE I

1. What is meant by Heuristics? Explain the following Heuristic search methods.
 - a. RBFS (5)
 - b. SM A* search (5)
2. Explain in detail the Unification rules and algorithms.
3. a. What is meant by machine learning? Explain its components and objectives. (5)
b. State and explain Bayes theorem of uncertainty. Mention the propositions and axioms of probability. (5)

MODULE II

4. Explain in detail the structure of behaviour based agent with suitable examples.
5. What is AFSM? Explain subsumption architecture of AFSM.
6. What is meant by Reactive functionality in embedded agents? Explain how it is applied in AuRA system.

MODULE III

7. a. Explain in detail the Human Machine Interface. (5)
b. Write short notes on CHMI. (5)
8. Explain in detail architectural design of robotic soccer team. Also discuss the agent adaptations with suitable examples.
9. Discuss the various design specifications of Li-Po management system of BQ76PL536 based Mobile Mechatronic Unit.