

Performance measure	Form, height, landing
Environment	Height Bar, Padded ground, judge, field
Sensors	Eyes, touch
Actuators	Form, length of legs, strength of legs, speed, flexibility

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National University of Computer & Emerging Sciences
Artificial Intelligence (CS401)

Quiz#2

Dated: February 06, 2014
Time: 20 min.

Marks: 20
Std-ID: _____Sol_____

Question No. 1 Indicate whether True or False

1. An agent that senses only partial information about the state cannot be perfectly rational. **F**
2. A simple reflexive agent is the simplest type of agent possible. **T**
3. A simple reflexive agent cannot have limited intelligence. **F**
4. A simple reflexive agent can also work rationally in unobservable environment. **F**
5. Every agent function is implementable by some program/machine combination. **F**
6. It is possible for a given agent to be perfectly rational in two dissimilarly distinct task environments. **F**
7. Every agent is rational in a fully observable environment. **F**
8. A model based agent has more clearly precepts of a task environment. **T**
9. A goal-based agent has an explicit goal criterion that can be altered. **T**
10. In utility-based agent's architecture, an agent's utility function is essentially an internalization of the performance measure. **T**

Question No. 2 Compare the following pair of terms. [5 x 2]

(a)	Simple Reflexive Agent	Model Based Agent
	Simple reflex agents respond directly to percepts	Model-based reflex agents maintain internal state to track aspects of the world that are not evident in the current percept.
	It has limited intelligence	It is more responsive
(b)	It has well define sequence of action	
	Agent's Program	Agent's Function
	An agent program implements an agent's function.	It defines the activity of an agent.
	The response to a percept sequence is mainly coded in a program.	It is can be used to change the environment.

