

CSCE 580 Spring 2015

QUIZ 3

Assigned Tuesday, 15-01-22

1. What are *mysterious1* and *mysterious2* in the following paragraph from p.26 [P]?

The **computational limit dimension** determines whether an agent has

- **mysterious1 rationality**, where an agent reasons about the best action without taking into account its limited computational resources or
- **mysterious2 rationality**, where an agent decides on the best action that it can find given its computational limitations.

Answer: *mysterious1* is perfect; *mysterious2* is bounded.

2. Give an example of effect uncertainty for the (coffee autonomous) delivery robot

Answer: wheel slippage; is coffee placed on a person's desk actually delivered to the person? (See p.32 bullet 2.)

3. Give an example of sensing uncertainty for the diagnostic assistant (that troubleshoots electrical problems in a house)

Answer: most failure modes are not sensed directly; diagnosis is all about removing or reducing uncertainty about the state of components that may fail. (See p.35 bullet 2.)