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Time taken	1 min 41 secs
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

Mark 4.00 out of 4.00

Please match the descriptions to the definitions of AI

A machine that thinks logically or systematically, thus acting in the best possible way.

Thinking rationally ▾



A machine that mimics how humans think, and thus acts like humans.

Thinking humanly ▾



A machine that acts like humans regardless of whether it thinks like humans.

Acting humanly ▾



A machine that acts to achieve the best outcome, regardless of how it arrives at the decision.

Acting rationally ▾



Your answer is correct.

The correct answer is:

A machine that thinks logically or systematically, thus acting in the best possible way. → Thinking rationally,

A machine that mimics how humans think, and thus acts like humans. → Thinking humanly,


A machine that acts like humans regardless of whether it thinks like humans. → Acting humanly,

A machine that acts to achieve the best outcome, regardless of how it arrives at the decision. → Acting rationally

Question 2

Correct

Mark 1.00 out of 1.00

Our class refers to "rational" as "maximally achieving pre-defined goals". We can express our goals as a  function.

The correct answer is: utility

Question 3

Correct

Mark 1.00 out of 1.00

What are the two main properties of a utility function to achieve a goal?

- ☐ a. Time-bounded
- ☐ b. Achievable
- ☒ c. Measurable ✓
- ☒ d. Related to the goal ✓
- ☐ e. Specific

Your answer is correct.

The correct answers are:

Measurable,

Related to the goal

Question 4

Correct

Mark 3.00 out of 3.00

Please match the descriptions with the types of agents

Exploring several alternative action plans and taking an action that reaches an optimal utility.

Model-based, utility-based agent ▾

✓

Acts upon an observation based on pre-defined rules

Simple reflex agent ▾

✓

Combining observations and memorized information to understand the state of the environment before taking an action based on pre-defined rules

Model-based reflex agent ▾

✓

Your answer is correct.

The correct answer is:

Exploring several alternative action plans and taking an action that reaches an optimal utility. → Model-based, utility-based agent,

Acts upon an observation based on pre-defined rules → Simple reflex agent,

Combining observations and memorized information to understand the state of the environment before taking an action based on pre-defined rules → Model-based reflex agent

Question 5

Correct

Mark 1.00 out of 1.00

What should NOT be a property of an agent state?

- ☐ a. Helpful for making a prediction of the next states or the next actions.
- ☒ b. Containing irrelevant information to get a complete detail of the environment. ✓
- ☐ c. Usually a function of the previous agent state and the current observation.
- ☐ d. Usually distinct from the environment state.

Your answer is correct.

The correct answer is:

Containing irrelevant information to get a complete detail of the environment.

