Started on	Friday, 12 August 2022, 5:19 PM
State	Finished
Completed on	Friday, 12 August 2022, 5:21 PM
Time taken	1 min 41 secs
Grade	10.00 out of 10.00 (100 %)

Question 1

Correct

Mark 4.00 out of 4.00

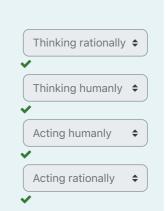
Please match the descriptions to the definitions of AI

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

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

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

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



Your answer is correct.

The correct answer is:

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

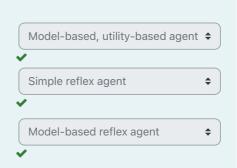
Mark 3.00 out of 3.00

Please match the descriptions with the types of agents

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

Acts upon an observation based on pre-defined rules

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



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 \rightarrow 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.
- ⑤ b. Containing irrelevant information to get a complete detail of the environment.
- oc. Usually a function of the previous agent state and the current observation.
- O 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.