

# QUIZ AI 3

Total points 9/11 ?

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✗ ROLL \*

.../1

50

✗

✓ knowledge and reasoning also play a crucial role in dealing with \_\_\_\_\_ environment. \*

1/1

- ☐ a) Completely Observable
- ☒ b) Partially Observable
- ☐ c) Neither Completely nor Partially Observable
- ☐ d) Only Completely and Partially Observable

✓



✓ 2.Treatment chosen by doctor for a patient for a disease is based on \* 1/1

- ☐ a) Only current symptoms
- ☐ b) Current symptoms plus some knowledge from the textbooks
- ☒ c) Current symptoms plus some knowledge from the textbooks plus experience ✓

✓ 3.Wumpus World is a classic problem, best example of \_\_\_\_\_ \* 1/1

- ☐ a) Single player Game
- ☐ b) Two player Game
- ☒ c) Reasoning with Knowledge ✓
- ☐ d) Knowledge based Game

✓ 4.The rule of Universal Instantiation (UI for short) says that we can infer any sentence obtained by substituting a ground term (a term without variables) for the variable. \* 1/1

- ☒ a) True ✓
- ☐ b) False



✓ 5. What among the following could the universal instantiation of \_\_\_\_\_ For all  $x$   $\text{King}(x) \wedge \text{Greedy}(x) \Rightarrow \text{Evil}(x)$  \*

1/1

- ☐ a)  $\text{King}(\text{John}) \wedge \text{Greedy}(\text{John}) \Rightarrow \text{Evil}(\text{John})$
- ☐ b)  $\text{King}(y) \wedge \text{Greedy}(y) \Rightarrow \text{Evil}(y)$
- ☐ c)  $\text{King}(\text{Richard}) \wedge \text{Greedy}(\text{Richard}) \Rightarrow \text{Evil}(\text{Richard})$
- ☒ d) All of the mentioned ✓

✗ 6. What among the following could the Existential instantiation of  $\exists x$   $\text{Crown}(x) \wedge \text{OnHead}(x, \text{Johnny})$  \*

0/1

- ☒ a)  $\text{Crown}(\text{John}) \wedge \text{OnHead}(\text{John}, \text{Jonny})$  ✗
- ☐ b)  $\text{Crown}(y) \wedge \text{OnHead}(y, \text{Jonny})$
- ☐ c)  $\text{Crown}(x) \wedge \text{OnHead}(x, \text{Jonny})$
- ☐ d) None of the mentioned

Correct answer

- ☒ b)  $\text{Crown}(y) \wedge \text{OnHead}(y, \text{Jonny})$

✓ 7. A knowledge-based agent can combine general knowledge with current percepts to infer hidden aspects of the current state prior to selecting actions. State whether True or False. \*

1/1

- ☒ a) True ✓
- ☐ b) False



✓ 8. Which algorithm will work backward from the goal to solve a problem? 1/1

\*

- ☐ a) Forward chaining
- ☒ b) Backward chaining
- ☐ c) Hill-climb algorithm
- ☐ d) None of the mentioned



✓ 9. Which condition is used to cease the growth of forward chaining? \* 1/1

- ☐ a) Atomic sentences
- ☐ b) Complex sentences
- ☒ c) No further inference
- ☐ d) All of the mentioned



✓ 10. Which can be converted to inferred equivalent CNF sentence? \* 1/1

- ☐ a) Every sentence of propositional logic
- ☐ b) Every sentence of inference
- ☒ c) Every sentence of first-order logic
- ☐ d) All of the mentioned



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