Review Test Submission: Quiz 1

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Course	Artificial Intelligence
Test	Quiz 1
Started	2/13/23 9:00 AM
Submitted	2/13/23 9:20 AM
Status	Completed
Attempt Score	19 out of 20 points
Time Elapsed	19 minutes out of 20 minutes
Results Displayed	All Answers

Question 1

1 out of 1 points

.....is one that acts in a manner causes it to be as successful as humans

Answers:

a. **Autonomous agent**

b. **Rational agent**

c. Program

d. **Environment**

Question 2

1 out of 1 points

..... which uses a fixed standard for measuring the learning element how well the agent is doing

Answers:

a. Equation

b. **Critic**

c. **Performance element**

d. **Learning element**

Question 3

1 out of 1 points

In an ..... environment the agent's experience can be divided into "periods"

Answers:

a. Socastic

b. Static

c. Dynamic

d. Episodic

Question 4

1 out of 1 points

Which of the following is not required in a search problem formulation?

Answers:

a. Initial State

b. Goal State

c. Search Tree correction

d. Action

Question 5

0 out of 1 points

BFS can be implemented using the following data structure?

Answers:

a. Priority Queue

b. Binary Tree

c. Stack

d. Linked List

Question 6

1 out of 1 points

The ultimate goal of AI is to design systems that can think and act like humans.

Answers: True
False

Question 7

1 out of 1 points

A simple breadth-first search will always find the shortest solution if one exists and it is of finite length.

Answers: True
False

Question 8

1 out of 1 points

Iterative Deepening search is a practical way to add heuristics to algorithm A*.

Answers: True
False

Question 9

1 out of 1 points

Hill Climbing search is not efficient as it requires maximum memory.

Answers: True
False

Question 10

1 out of 1 points (Extra Credit)

Forward checking is a more powerful constraint propagation algorithm than arc consistency in that it can converge to a solution more quickly.

Answers: True
False

Question 11

1 out of 1 points

Deciding if a CSP is consistent is, in general, NP-hard.

Answers: True
False

Question 12

9 out of 10 points

Apply breadth first search on the given graph and show the steps starting from node 0 to 6
Quiz1_AI_quS2.pdf

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← OK