

## Unit 15 Test

Your Score: **100%**  
**20** Correct out of **20**  
Question 1 of 20

The "instance" relationship shows that something is an object of a \_\_\_\_.

- ☒ class

## Unit 15 Test

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Question 2 of 20

A \_\_\_\_ is an aircraft under autonomous control via a computer system on board or controlled by a human controller at a remote site.

- ☒ drone

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Question 3 of 20

The algorithmic approach called \_\_\_\_ has been used commercially in vehicle routing, job scheduling, and sensing biological or chemical contaminants.

- ☒ ACO

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Question 4 of 20

A \_\_\_\_ approach for finding a solution path traces all branches of the state-space graph so that all possible choices are tested and no test cases are repeated.

- ☒ brute force

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Question 5 of 20

Information can be stored in \_\_\_\_ form as an image, which is a grid of pixels that have attributes of shading and color.

- ☒ pictorial

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Question 6 of 20

\_\_\_\_ technology can download updates to personalized information, such as the weather conditions in your geographic area, to your cell phone.

- ☒ Push

## Unit 15 Test

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Question **7** of **20**

The human brain uses a \_\_\_\_ architecture, characterized by a large number of simple "processors" with multiple interconnections.

- ☒ connectionist

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Question **8** of **20**

A \_\_\_\_ for a binary search reflects the fact that if the current item is not the target, there are only two next choices: the midpoint of the sublist before the node or the midpoint of the sublist after the node.

- ☒ decision tree

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Question **9** of **20**

When reading a \_\_\_\_ language, we use our understanding of the richness of the language's vocabulary to extract the meaning.

- ☒ natural

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Question **10** of **20**

All of the following are characteristics that must be contained in any knowledge representation scheme EXCEPT \_\_\_\_.

- ☒ comprehensiveness

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Question **11** of **20**

Artificial intelligence seeks ways to improve a computer's capabilities in \_\_\_\_ and reasoning tasks.

- ☒ recognition

## Unit 15 Test

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Question **12** of **20**

\_\_\_\_ is the branch of computer science that explores techniques for incorporating aspects of intelligence into computer systems.

- ☒ Artificial intelligence

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Question **13** of **20**

IBM recently announced a new computer chip, called \_\_\_\_\_, that mimics the way the brain works through the use of "neurosynaptic" cores.

- ☒ TrueNorth

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Question **14** of **20**

A(n) \_\_\_\_\_ must contain the following components: a knowledge base and an inference engine.

- ☒ rule-based system

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Question **15** of **20**

The term \_\_\_\_\_ implies a device that can gather sensory information from its surroundings and to autonomously perform mechanical actions in response.

- ☒ robot

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Question **16** of **20**

A \_\_\_\_\_ network can learn from experience by modifying the weights on its connections.

- ☒ neural

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Question **17** of **20**

The \_\_\_\_\_ intelligence model captures the behavior of an ant colony by using simple agents that operate independently.

- ☒ swarm

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Question **18** of **20**

A \_\_\_\_\_ is a graph with nodes and connecting arcs.

- ☒ semantic net

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Question **19** of **20**

At the end of its training, the \_\_\_\_\_ is ready to go to work on new recognition problems that are similar to the training data but for which the answers are unknown.

- ☒ neural network

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Question **20** of **20**

The axon of a neuron sends signals over small gaps called \_\_\_\_\_.

- ☒ synapses