

Question **1**

Correct

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Flag question

What are two characteristics of artificial intelligence? (Choose two.)

Select one or more:

- ☐ It is an agile, responsive network technology that scales easily and adapts to meet business requirements.
- ☐ Artificial intelligence uses statistical techniques to give computers the ability to learn from their environment.
- ☐ It translates intent into policies and then uses automation to deploy appropriate network configurations.
- ☒ It uses systems that mimic human cognitive functions such as learning and problem solving. ✓
- ☒ It uses intelligent agents that interact with the environment and make decisions to reach a specific goal. ✓

Refer to curriculum topic: 4.1.2

Artificial Intelligence, also known as AI, is the intelligence demonstrated by machines. AI uses intelligent agents to perceive the environment and make decisions to accomplish a specific goal or objective. AI systems mimic cognitive functions normally associated with human minds such as learning and problem solving.

The correct answers are: It uses systems that mimic human cognitive functions such as learning and problem solving., It uses intelligent agents that interact with the environment and make decisions to reach a specific goal.

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Question **2**

Correct

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Which two applications commonly use ML technology? (Choose two.)

Select one or more:

- ☐ graphic design
- ☐ playground safety scanning
- ☒ speech recognition ✓
- ☒ credit card fraud detection ✓
- ☐ e-readers

Refer to curriculum topic: 4.1.2

Some of the more common uses of ML technology include product recommendation online, credit card fraud detection, and speech/shape/facial recognition.

The correct answers are: credit card fraud detection, speech recognition

Question 3

Correct

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What are two examples of automation? (Choose two.)

Select one or more:

- ☐ A customer uses online banking to pay a bill.
- ☒ A robot cleans up an industrial chemical spill. ✓
- ☐ An automobile is started remotely by the owner.
- ☒ A building automatically adjusts the heating and lights based the routine of the occupants. ✓
- ☐ A user changes TV channels via a wireless remote.

Refer to curriculum topic: 4.1.1

Automation is any process that limits or eliminates the need for human intervention. In the examples given, a building that automatically adjusts lighting and heat and a robot cleaning up spills do not require human intervention.

The correct answers are: A building automatically adjusts the heating and lights based the routine of the occupants., A robot cleans up an industrial chemical spill.

Question 4

Correct

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Which ML technology can be used to identify and track individual persons?

Select one:

- ☐ credit card fraud detection
- ☐ shape recognition
- ☒ facial recognition ✓
- ☐ e-readers

Refer to curriculum topic: 4.1.2

Increased use of cameras has promoted facial recognition, which builds a pattern of specific facial features that is used to identify and track individuals.

The correct answer is: facial recognition

Question **5**

Correct

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What three technologies control network functions to accomplish a desired intent in an intent based network? (Choose three.)

Select one or more:

- ☐ advanced analytics
- ☐ cloud computing
- ☐ robots
- ☒ automation
- ☒ artificial intelligence
- ☒ machine learning



Refer to curriculum topic: 4.1.0

Intent-based networking leverages automation, artificial intelligence, and machine learning technologies to control network functions to accomplish a specific purpose, or intent.

The correct answers are: automation, artificial intelligence, machine learning

Question **6**

Correct

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What term is used to describe the intelligence demonstrated by machines?

Select one:

- ☒ artificial intelligence
- ☐ IBN
- ☐ natural intelligence
- ☐ machine learning



Refer to curriculum topic: 4.1.2

Artificial Intelligence (AI) refers to systems that mimic cognitive functions such as learning and problem solving normally associated with humans. This is why AI is also defined as intelligence demonstrated by machines.

The correct answer is: artificial intelligence

Question 7

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question

Which field has traditionally been tied to automation?

Select one:

- ☒ robotics
- ☐ medicine
- ☐ education
- ☐ sports



Refer to curriculum topic: 4.1.1

Automation was commonly associated with the manufacturing industry and tied to the field of robotics, but now automation is everywhere.

The correct answer is: robotics

Question 8

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question

What is a key feature of the translation element of the intent-based networking model?

Select one:

- ☐ verification of configuration before devices are deployed
- ☒ application of business intent to network configuration
- ☐ end-to-end verification of network-wide behavior
- ☐ provisioning of intent-based policies



Refer to curriculum topic: 4.1.3

There are three key elements of the intent-based networking model: assurance, translation, and activation. The translation element is concerned with the ability to apply business intent to network configuration.

The correct answer is: application of business intent to network configuration

Question 9

Which element of the IBN model orchestrates policies and configures systems?

Question 9

Correct

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Which element of the IBN model orchestrates policies and configures systems?

Select one:

- ☐ translation
- ☐ assurance
- ☐ physical and virtual infrastructure
- ☒ activation



Refer to curriculum topic: 4.1.0

The activation element of IBN occurs after the intent has been specified and the policies created. This enables individual devices to be provisioned to match intent-based policies.

The correct answer is: activation

Question 10

Correct

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What is artificial intelligence?

Select one:

- ☐ the intersection of innovation and society
- ☐ the connectivity of multiple devices and transmission of data through the internet
- ☐ the gathering of data from sensors
- ☒ the ability of a device to "learn" based on code and provided data



Refer to curriculum topic: 1.1.1

Artificial intelligence is logic shown by electronic devices that are programed to learn and modify their own code based on parameters and data.

The correct answer is: the ability of a device to "learn" based on code and provided data

Question 11

Correct

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What is a requirement for a device to be referred to as a smart device?

Select one:

- ☐ The device can perform a series of steps based on programmed code.
- ☐ The device can accept human input.
- ☒ The device can make a decision or take a course of action based on outside information. ✓
- ☐ The device stores data that is retrievable.

Refer to curriculum topic: 4.1.1

Smart devices have the ability to alter behavior depending on the environment.

The correct answer is: The device can make a decision or take a course of action based on outside information.

Question 12

Correct

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Which technology uses AI and other technologies to reconfigure a network to comply with service levels?

Select one:

- ☐ JSON
- ☐ CSV
- ☐ ML
- ☒ IBN ✓

Refer to curriculum topic: 4.1.3

Intent-based networking (IBN) uses artificial intelligence (AI) and machine learning (ML) to control the function of a network to accomplish a specific purpose. If a particular service level is not being met, the intent-based network can generate an alert, make suggestions, or automatically reconfigure the network.

The correct answer is: IBN

Question **13**

Correct

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True or False?

An appliance that lowers power consumption during peak demand is considered a smart device.

Select one:

- ☒ true
☐ false



Refer to curriculum topic: 4.1.1

Smart devices have the ability to alter behavior depending on the environment.

The correct answer is: true

Question **14**

Correct

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Which action takes place in the assurance element of the IBN model?

Select one:

- ☐ configuring systems
☐ translation of policies
☐ integrity checks
☒ verification and corrective action



Refer to curriculum topic: 4.1.0

The assurance element of the IBN model is concerned with end-to-end verification of network-wide behavior.

The correct answer is: verification and corrective action

Question **15**

Correct

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Which technology enables features such as speech recognition, product recommendations, and credit card fraud detection?

Select one:

- ☒ machine learning

