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# Introduction to IoT

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**Time taken** 6 mins 10 secs

**Marks** 30.00/30.00

**Grade** 100.00 out of 100.00

## Question 1

Correct

Mark 2.00 out of 2.00

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

Select one:

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



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 2

Correct

Mark 2.00 out of 2.00

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

Select one:

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



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 3

Correct

Mark 2.00 out of 2.00

What is artificial intelligence?

Select one:

- ☐ the intersection of innovation and society
- ☐ the gathering of data from sensors
- ☐ the connectivity of multiple devices and transmission of data through the internet
- ☒ 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 4

Correct

Mark 2.00 out of 2.00

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

Select one or more:

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



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 5

Correct

Mark 2.00 out of 2.00

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



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 6

Correct

Mark 2.00 out of 2.00

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

Select one or more:

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

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.

## Question 7

Correct

Mark 2.00 out of 2.00

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 8

Correct

Mark 2.00 out of 2.00

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 9

Correct

Mark 2.00 out of 2.00

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

Select one or more:

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



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 10

Correct

Mark 2.00 out of 2.00

Which field has traditionally been tied to automation?

Select one:

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



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 11

Correct

Mark 2.00 out of 2.00

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

Select one:

- ☒ IBN
- ☐ ML
- ☐ CSV
- ☐ JSON



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 12

Correct

Mark 2.00 out of 2.00

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

Select one:

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



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 13

Correct

Mark 2.00 out of 2.00

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
- ☒ automation
- ☒ machine learning
- ☒ artificial intelligence
- ☐ robots



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 14

Correct

Mark 2.00 out of 2.00

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

Select one:

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



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 **15**

Correct

Mark 2.00 out of 2.00

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

Select one:

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



Refer to curriculum topic: 4.1.2  
Machine learning gives computers the power to learn from the environment and then respond or act on certain conditions. Some practical uses of machine learning include malicious code detection, network intruder detection, optical character recognition, computer speech recognition, and computer vision.  
The correct answer is: machine learning

◀ Chapter 4: Terms and Concepts Practice

Jump to...

[Read Chapter 5: Everything Needs to be Secured ▶](#)

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