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# Introduction to IoT

**Started on** Tuesday, 27 September 2022, 7:55 PM**State** Finished**Completed on** Tuesday, 27 September 2022, 8:48 PM**Time taken** 53 mins 17 secs**Marks** 30.00/30.00**Grade** 100.00 out of 100.00**Question 1**

Correct

Mark 2.00 out of 2.00

What is needed in a smart home to connect sensors and smart devices to a network?

Select one:

- ☐ internet connection
- ☐ Bluetooth
- ☐ Packet Tracer
- ☒ home gateway



Refer to curriculum topic: 1.2.1

In a smart home, IoT devices connect to the network through a home gateway device.

The correct answer is: home gateway

**Question 2**

Correct

Mark 2.00 out of 2.00

What type of device could allow a refrigerator to place a replacement order for an item contained within it?

Select one:

- ☐ smart phone
- ☐ digital network
- ☐ generator
- ☒ sensor



Refer to curriculum topic: 1.1.1

Sensors can be used to detect motion, water levels, light levels, temperature, and other measurements such as the weight of the milk carton within a smart refrigerator that could place a replacement order for the milk.

The correct answer is: sensor

## Question 3

Correct

Mark 2.00 out of 2.00

What allows digital devices to interconnect and transmit data?

Select one:

- ☐ a smart phone
- ☐ a global positioning sensor
- ☐ a sensor
- ☒ a network



Refer to curriculum topic: 1.1.1

A network connects people and devices through wired or wireless means.

The correct answer is: a network

## Question 4

Correct

Mark 2.00 out of 2.00

What is comprised of millions of smart devices and sensors connected to the internet?

Select one:

- ☒ the Internet of Things
- ☐ the cloud
- ☐ the data center
- ☐ the fog



Refer to curriculum topic: 1.2.1

The Internet of Things (IoT) consists of millions of smart devices and sensors connected to the Internet. The devices and sensors in the IoT collect and share data for use by business, cities, governments, hospitals and individuals.

The correct answer is: the Internet of Things

## Question 5

Correct

Mark 2.00 out of 2.00

What is a sensor?

Select one:

- ☐ something that provides products and services to customers through an internet connection
- ☒ a device that detects or measures an event or physical property
- ☐ anything that stores data
- ☐ the foundation of the digitized world



Refer to curriculum topic: 1.1.1

Sensors detect or measure and send that data to be processed and analyzed. Sensors can detect motion, water levels, light levels, temperature, and color.

The correct answer is: a device that detects or measures an event or physical property

## Question 6

Correct

Mark 2.00 out of 2.00

Which type of computing is located at the edge of a business or corporate network and that allows data from sensors to be preprocessed?

Select one:

- ☐ internet
- ☐ WAN
- ☐ wireless
- ☒ fog



Refer to curriculum topic: 1.1.2

Fog computing contains servers and intelligence that allows data from sensors to be preprocessed and available for immediate use and sent into the cloud for more in-depth analysis.

The correct answer is: fog

## Question 7

Correct

Mark 2.00 out of 2.00

True or False?

Once connected to the home gateway, smart devices can be controlled from a smartphone, tablet, or PC.

Select one:

- ☐ false
- ☒ true



Refer to curriculum topic: 1.2.2

The correct answer is: true

## Question 8

Correct

Mark 2.00 out of 2.00

What information is conveyed by the SSID that is configured on an IoT device?

Select one:

- ☐ the default gateway
- ☒ the wireless network
- ☐ the registration server
- ☐ the home gateway



Refer to curriculum topic: 1.2.2

The SSID is used to identify the name of the wireless network which a device can join.

The correct answer is: the wireless network

## Question 9

Correct

Mark 2.00 out of 2.00

## True or False?

The Internet of Things can help organizations improve the efficiency and productivity of manufacturing processes and operations.

Select one:

☐ false☒ true

Refer to curriculum topic: 1.2.1

The correct answer is: true

## Question 10

Correct

Mark 2.00 out of 2.00

Which type of network is used to connect a company located in one area of a city to another location in a city far away?

Select one:

☐ MAN☒ WAN☐ PAN☐ LAN

Refer to curriculum topic: 1.1.2

Wide-area networks (WANs) provide inter-LAN connectivity between sites.

The correct answer is: WAN

## Question 11

Correct

Mark 2.00 out of 2.00

Which command is used to test network connectivity and provide a response to each packet received by the remote host?

Select one:

☒ ping☐ text☐ connect☐ tracert

Refer to curriculum topic: 1.1.2

The **ping** and **tracert** commands are both used to test connectivity. The **ping** command is used to test connectivity from one network device to another network device. The **tracert** command is used to trace a route from the source network device to another network device.

The correct answer is: **ping**

## Question 12

Correct

Mark 2.00 out of 2.00

Which type of wireless network is used to connect devices within a city to create a metropolitan-area network (MAN)?

Select one:

- ☐ LTE
- ☐ ZigBee
- ☒ WiMAX
- ☐ Bluetooth



Refer to curriculum topic: 1.1.2

WiMAX uses the IEEE 802.15 standard to create a metropolitan-area network (MAN) within a city. Bluetooth and ZigBee are used to create a personal-area network (PAN) and LTE is used in a cellular network.

The correct answer is: WiMAX

## Question 13

Correct

Mark 2.00 out of 2.00

What is the core component of Intent-Based Networking?

Select one:

- ☐ the cloud
- ☐ the internet
- ☐ fog computing
- ☒ artificial intelligence



Refer to curriculum topic: 1.2.2

Artificial intelligence will allow Intent-Based Networking to automatically configure network device across the network to fulfill network requirements based on the intent of those requirements.

The correct answer is: artificial intelligence

## Question 14

Correct

Mark 2.00 out of 2.00

Which tool allows a user to simulate real networks?

Select one:

- ☐ PAN
- ☐ artificial intelligence
- ☐ internet
- ☒ Packet Tracer



Refer to curriculum topic: 1.1.1

Packet Tracer is a free network simulation and visualization tool.

The correct answer is: Packet Tracer

Question **15**

Correct

Mark 2.00 out of 2.00

True or False?  
The Internet of Things will connect inanimate objects to the network with intelligent sensors.

Select one:

- ☐ false
- ☒ true



Refer to curriculum topic: 1.2.1  
The correct answer is: true

◀ Chapter 1: Terms and Concepts Practice

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