



Course
Home



Grades



Messages



Calendar

IoT Fundamental: Connecting Things

Started on Saturday, 26 November 2022, 7:12 PM

State Finished

Completed on Saturday, 26 November 2022, 7:17 PM

Time taken 5 mins 2 secs

Marks 33.33/34.00

Grade 98.04 out of 100.00

Question 1

Correct

Mark 2.00 out of 2.00

Which web architecture uses hyperlink references that point to images, audio, or video?

Select one:

- ☒ hypermedia
- ☐ hyperlink
- ☐ URIs
- ☐ URLs



Refer to curriculum topic: 6.3.1

Hypermedia is an extension of hypertext. Hypermedia references not only text but also images, audio, and video.

The correct answer is: hypermedia

Question 2

Correct

Mark 2.00 out of 2.00

Which function is associated with the marketing and sales activity of a product or service in the Business Model Canvas?

Select one:

- ☒ facilitating an exchange of value for offerings
- ☐ receiving inputs for offerings
- ☐ transforming inputs into offerings
- ☐ distributing offerings to customers



Refer to curriculum topic: 6.4.1

In the Business Model Canvas the, marketing and sales activity is concerned with facilitating an exchange of value for offerings.

The correct answer is: facilitating an exchange of value for offerings

Question 3

Correct

Mark 2.00 out of 2.00

What symbol is used in a flowchart to represent a decision?

Select one:

- ☐ rectangle
- ☐ star
- ☐ circle
- ☒ diamond



Refer to curriculum topic: 6.3.1

In a flowchart, the rectangle is used to represent an activity or processing step. A diamond is used to represent a decision step.

The correct answer is: diamond

Question 4

Correct

Mark 2.00 out of 2.00

What type of diagram is used to represent interactions along a timeline?

Select one:

- ☐ elementary diagram
- ☐ electric schematic
- ☐ flowchart
- ☒ sequence diagram



Refer to curriculum topic: 6.3.1

The sequence diagram is used to represent interactions along a timeline. A sequence diagram is also known as an event diagram or event scenario.

The correct answer is: sequence diagram

Question 5

Correct

Mark 2.00 out of 2.00

What are the first two steps in the engineering design process? (Choose two.)

Select one or more:

- ☒ document
- ☒ inspire
- ☒ define
- ☐ construct
- ☐ analyze



Refer to curriculum topic: 6.2.1

The engineering design process is a series of five steps used by engineers when working on a solution to a problem. The steps in order are inspire, define, prototype, test, and present. The steps are cyclical and are repeated as many times as needed to make improvements in the design process.

The correct answers are: inspire, define

Question 6

Partially correct

Mark 1.33 out of 2.00

Which three blocks in the Business Model Canvas describe infrastructure management? (Choose three.)

Select one or more:

- ☐ channels
- ☐ key activities
- ☐ cost structure
- ☒ key resources
- ☐ revenue stream
- ☒ key partnerships



The correct answers are: key activities, key resources, key partnerships

Question 7

Correct

Mark 2.00 out of 2.00

Which area of activity in the Business Model Canvas is associated with transforming inputs into offerings?

Select one:

- ☐ sales
- ☐ marketing
- ☐ service
- ☒ operations



Refer to curriculum topic: 6.4.1

In the design of a value proposition, there are five areas commonly associated with production and manufacturing: inbound logistics, operations, outbound logistics, marketing and sales, and service. The operations activity in the Business Model Canvas is concerned with transforming inputs into offerings.

The correct answer is: operations

Question 8

Correct

Mark 2.00 out of 2.00

What is documented through the use of a flowchart?

Select one:

- ☐ the best paths through a network
- ☐ the interactions between entities along a timeline
- ☒ the solution flow to a given problem
- ☐ the components and connections of electric circuits



Refer to curriculum topic: 6.3.2

The flowchart uses different shapes such as boxes and connecting arrows to represent processes in a workflow.

The correct answer is: the solution flow to a given problem

Question 9

Correct

Mark 2.00 out of 2.00

What are two recommended security actions to take when using off-the-shelf IoT devices? (Choose two.)

Select one or more:

- ☐ Ensure that all accounts are enabled.
- ☐ Enable remote management.
- ☒ Disable UPnP.
- ☒ Update software and patches.
- ☐ Use default user accounts and passwords.



Refer to curriculum topic: 6.2.1

Many off-the-shelf IoT devices are not designed and manufactured with security in mind. Security precautions must be taken with these devices. These precautions include disabling default user accounts, disabling UPnP, and disabling remote management services.

The correct answers are: Disable UPnP., Update software and patches.

Question 10

Correct

Mark 2.00 out of 2.00

What are three of the eight Millennium Development Goals? (Choose three.)

Select one or more:

- ☒ eradicate extreme hunger
- ☐ stop nuclear weapon development
- ☒ ensure environmental sustainability
- ☐ realize IoT solutions for car manufacturers
- ☒ promote gender equality and empower women
- ☐ provide high speed Internet access to every home



Refer to curriculum topic: 6.1.1

The eight Millennium Development Goals (MDGs) are as follows:

- Eradicate extreme hunger
- Achieve universal primary education
- Promote gender equality and empower women
- Reduce child mortality
- Improve maternal health
- Combat HIV/AIDS and malaria and other diseases
- Ensure environmental sustainability
- Global partnership for development

The correct answers are: eradicate extreme hunger, ensure environmental sustainability, promote gender equality and empower women

Question 11

Correct

Mark 2.00 out of 2.00

What ensures that an IFTTT URI is only usable by the authorized device?

Select one:

- ☐ a public key
- ☐ a passphrase
- ☒ a secret key
- ☐ a challenge



Refer to curriculum topic: 6.3.1

A secret key provided by IFTTT is used to ensure that only authorized devices and applications can use the special IFTTT URI.

The correct answer is: a secret key

Question 12

Correct

Mark 2.00 out of 2.00

Which building block of the Business Model Canvas identifies how value will be delivered to customer segments?

Select one:

- ☐ customer relationships
- ☐ customer segments
- ☐ cost structure
- ☒ channels



Refer to curriculum topic: 6.4.1

In the Business Model Canvas, the channels building block identifies how an organization will deliver value to customer segments. Channels can include direct efforts or indirect methods as well as add value.

The correct answer is: channels

Question 13

Correct

Mark 2.00 out of 2.00

Which HTTP method initiates a RESTful read action?

Select one:

- ☐ POST
- ☒ GET
- ☐ PUT
- ☐ DELETE



Refer to curriculum topic: 6.3.1

RESTful systems often communicate over Hypertext Transfer Protocol (HTTP), using the same HTTP verbs (GET, POST, PUT, and DELETE) as used by web browsers. The GET HTTP verb is used to initiate a read action.

The correct answer is: GET

Question 14

Correct

Mark 2.00 out of 2.00

Which aspect of the Business Model Canvas is covered by four blocks: value proposition, customer segment, channels, and customer relationships?

Select one:

- ☐ finances
- ☐ technologies
- ☒ customer interface
- ☐ infrastructure management



Refer to curriculum topic: 6.4.1

The Business Model Canvas uses nine building blocks to describe the business model of an organization based on a custom interface, infrastructure management, and finances. The customer interface component consists of the four blocks.

The correct answer is: customer interface

Question 15

Correct

Mark 2.00 out of 2.00

What is an example of a company or entrepreneur using the Business Model Canvas?

Select one:

- ☐ using a network simulation tool such as Packet Tracer
- ☐ using network documentation software such as Microsoft Visio
- ☐ using network inspection software such as WireShark
- ☒ using sticky notes on a large surface



Refer to curriculum topic: 6.4.1

The Business Model Canvas is a way for organizations and entrepreneurs to visualize a business model based on customer segments, value propositions, channels, customer relationships, revenue streams, key resources, key activities, key partnerships, and cost structures.

The correct answer is: using sticky notes on a large surface

Question 16

Correct

Mark 2.00 out of 2.00

Which type of information is conveyed in a sequence diagram?

Select one:

- ☒ types of interactions between devices along a timeline ✓
- ☐ processes and workflows in a project
- ☐ components in an electrical circuit
- ☐ steps in an engineering design process

Refer to curriculum topic: 6.3.1

A sequence diagram is a common choice when various types of interactions between devices must be represented. They are used to represent interactions between devices along a timeline.

The correct answer is: types of interactions between devices along a timeline

Question 17

Correct

Mark 2.00 out of 2.00

What are two precautions that can be taken to prevent radio interference from unconnected analog pins on a circuit board? (Choose two.)

Select one or more:

- ✓ Connect them to ground. ✓
- ✓ Connect them to the battery. ✓
- Connect them to a resistor.
- Cover them with electrical tape.
- Connect them to each other.

Refer to curriculum topic: 6.3.1

Analog pins with no connections are in a floating state. In this state they are subject to radio interference, which can change the state of the pin and cause corruption in the programming code of the device.

The correct answers are: Connect them to ground., Connect them to the battery.

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