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Completed on Time taken Marks	Saturday, 26 November 2022, 6:57 PM Finished Saturday, 26 November 2022, 7:01 PM
Time taken Marks	Saturday, 26 November 2022, 7:01 PM
Marks	
	4 mins 50 secs
Grade	32.00/32.00
	100.00 out of 100.00
Question 1	
Correct	
Mark 2.00 out of 2.00	
What are two protoc	cols developed by the Wi-Fi Alliance to secure wireless networks? (Choose two.)
Select one or more:	
√ WPA	
802.1x	
WPA2	
LoRaWAN	
IPsec	
	cols to secure wireless networks. WPA is the older of the two protocols and considered vulnerable to hacking attacks, and
therefore WPA2 is r The correct answers	ecommended.
therefore WPA2 is r	ecommended.
therefore WPA2 is r	ecommended.
therefore WPA2 is r The correct answers	ecommended.

	Question 3						
Correct	Correct						
Mark 2.00 out of 2.00	Vlark 2.00 out of 2.00						
What is the role of routing on data networks?							
Select one:							
o to determin	e the best paths for page	ckets through the network	~				
to provide a	a physical channel for p	ackets to travel through the network					
o to ensure a	vailability of services ar	nd resources on the network					
to provide a	an architecture for data	exchange					
On a network, pa is the best path t	Refer to curriculum topic: 4.1.1 On a network, packets must travel between source and destination along one of many paths. Routing is used on the network to calculate which path is the best path for packets to take. The correct answer is: to determine the best paths for packets through the network						
Question 4 Correct Mark 2.00 out of 2.00							
Mark 2.00 out of 2.00							
What are three o	characteristics that distin	nguish big data from data? (Choose three.)					
Select one or mo			_				
amount of data being transported and stored							
			~				
rate at which	h data is generated		~				
rate at which	th data is generated a that is generated		*				
rate at whicetype of datawhere the c	th data is generated a that is generated data is stored		*				
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Refer to curriculum topic: 4.1.1

The correct answer is: fiber optic cable \rightarrow pulses of light, copper wires \rightarrow electrical impulses, wireless \rightarrow radio waves

Question 6
Correct
Mark 2.00 out of 2.00
What is the goal of fog computing?
Select one:
to store all data on a single server for processing
to send data immediately to the cloud for secure storage
O to analyze data as close to the source as possible
to permanently store data on the local device
Refer to curriculum topic: 4.2.1
The fog computing model involves real-time analysis of data as close to where it is created as possible.
The correct answer is: to analyze data as close to the source as possible
Question 7
Correct
Mark 2.00 out of 2.00
Which wireless technology can be used to provide a metropolitan area with up to 100 Mbps of bandwidth?
Select one:
U Bluetooth
○ 5G
○ LoRaWAN
ZigBee
Refer to curriculum topic: 4.1.2
5G is a fifth generation cellular-based technology for transferring data over large geographic areas, 5G provides high bandwidth and is capable of
data rates of 100 Mbps.
The correct answer is: 5G
Question 8
Correct
Mark 2.00 out of 2.00
Which cloud service provides an app development platform and a backend service for apps?
Select one:
Built.io
○ IFTTT
ZigBee
$\stackrel{\smile}{\circ}$
Refer to curriculum topic: 4.2.1
Refer to curriculum topic: 4.2.1 Built,io is a cloud service that is an app development program and is a useful resource for IoT systems that require a mobile app.

	Question 9							
	Correct							
	Mark 2.00 out of 2.00							
	What measure should be taken to secure IoT devices?							
	Select one:							
	install self-encry	pting hard drives						
	odisconnect from	disconnect from the Internet						
	keep firmware u	pdated	✓					
	implement the se	ecurity through obscurity model						
Refer to curriculum topic: 4.2.4 loT devices are typically too small and inexpensive to run complex security algorithms. This makes the devices vulnerable to security three mitigate these threats, the firmware on the devices should be upgraded to the latest version. The correct answer is: keep firmware updated								
	Question 10							
	Correct							
	Mark 2.00 out of 2.00							
	Match the network co	mponent category with the description.						
	media	physical channel to carry messages	✓					
	services	network applications	✓					
	end devices	source or destination of a message	✓					
	intermediate devices	determine best path for packets	✓					
	Refer to curriculum topic: 4.1.1 The correct answer is: media → physical channel to carry messages, services → network applications, end devices → source or destination of a message, intermediate devices → determine best path for packets							
	Question 11							
	Correct							
	Mark 2.00 out of 2.00							
	What is data in motion	1?						
	Select one: value extracted from data while it is being generated							
	data stored in me	obile devices						
	data generated b	by an IoT device that is moving						
	odata transferred	from an IoT device to the cloud						
	Refer to curriculum topic: 4.2.2 The term data in motion refers to the process of extracting value from data while it is being generated. It is considered in motion because it may or may not eventually be stored. The correct answer is: value extracted from data while it is being generated.							
	THE COHECT SHOWEL IS	The correct answer is: value extracted from data while it is being generated						

Question 12	Question 12						
Correct							
Mark 2.00 out o	Mark 2.00 out of 2.00						
Match the wireless technology with the description.							
LoRaWAN	uses a gateway to relay messages between end-devices and a central network server	~					
ZigBee	popular in IoT applications such as home automation	~					
4G/5G	cellular-based technology for transferring data over large geographic areas	~					
Refer to cur	riculum topic: 4.1.2						
The correct	answer is: LoRaWAN \rightarrow uses a gateway to relay messages between end-devices and a constant such as home automation, $4G/5G \rightarrow$ cellular-based technology for transferring data over						
Question 13							
Correct Mark 2.00 out of	f 2.00						
wark ∠.UU out o	1 2.00						
Which wirel	ess technology has low-power and data rate requirements making it popular in home auto	mation applications?					
Select one:							
○ LoRaV	VAN						
○ 5G							
○ Wi-Fi							
ZigBe		•					
Refer to curriculum topic: 4.1.2 ZigBee is an IEEE 802.15.4 wireless standard designed for creating personal-area networks. Low energy, power, and data rate requirements make Zigbee a popular protocol for connecting home automation devices. The correct answer is: ZigBee							
Question 14							
Correct Mark 2 00 out o	f 2.00						
Mark 2.00 out of 2.00 Which pillar of the Cisco IoT System allows data to be analyzed and managed at the location where it is generated?							
Select one:							
	nalytics						
of fog co	mputing	✓					
netwo	k connectivity						
applica	application enhancement platform						
	ation enhancement platform						
The Cisco I physical), (4 and hardwa	riculum topic: 5.1.1 oT System consists of six pillars to describe foundational elements, (1) network connectivity data analytics, (5) management and automation, and (6) an application enablement platere that extends IoT applications to the network edge. answer is: fog computing						

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Question 15	
Correct	
Mark 2.00 out of 2.00	
What are rules governing communication between network devices?	
Select one:	
processes	
O protocols	~
services	
architectures	
distribution	
Refer to curriculum topic: 4.1.1	
Before devices on a network can communicate to each other, they must agree on a common set of communication rules. These rules are	called
protocols. The correct angular is: protocols	
The correct answer is: protocols	
Question 16	
Correct	
Mark 2.00 out of 2.00	
Which statement is an accurate description of 4G and 5G wireless technologies?	
Select one:	
Both 4G and 5G technologies use a low-energy, low-power, low-data rate for wireless personal-area networks.	
They require a wireless WAN connection to power constricted devices.	
They are both cellular-based technologies for covering large geographic areas.	~
They both require a 2.4 GHz short-range radio frequency band for industrial, scientific, and medical applications.	
,,,	
Refer to curriculum topic: 4.1.2	
4G and 5G are fourth and fifth generation cellular-based technologies for transferring data over large geographic areas. Both provide high	bandwidth
and are capable of supporting voice, mobile Internet access, video calling, and high-definition mobile TV. The correct answer is: They are both cellular-based technologies for covering large geographic areas.	
The correct answer is. They are both cellular-based technologies for covering large geographic areas.	
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