Fundamentals of Information Systems Security 4th edition Kim Test Bank

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Chapter: Chapter 02 - Quiz

Multiple Choice

1. Which term best describes how a wide variety of objects, devices, sensors, and everyday items can connect and be accessed?
A) Radio frequency identification (RFID)
B) Software as a Service (SaaS)
C) Internet of Things (IoT)
D) Unified messaging (UM)
Ans: C
Complexity: Easy
Ahead: Evolution of the Internet of Things
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Feedback:
Taxonomy: Remember

2. Which of the following is *not* a market driver for the Internet of Things (IoT)?
A) Global adoption of Internet Protocol (IP) networking
B) Smaller and faster computing
C) A decline in cloud computing
D) Advancements in data analytics
Ans: C
Complexity: Medium
Ahead: Evolution of the Internet of Things
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Feedback: There are five key drivers for the IoT: the global adoption of IP-based networking, connectivity everywhere, smaller and faster computing, the growth of cloud computing, and data analytics.
Taxonomy: Understand

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3. Kaira's company recently switched to a new calendaring system provided by a vendor. Kaira and other users connect to the system, hosted at the vendor's site, using a web browser. Which service delivery model is Kaira's company using?
A) Platform as a Service (PaaS)
B) Software as a Service (SaaS)
C) Communications as a Service (CaaS)
D) Infrastructure as a Service (IaaS)
Ans: B
Complexity: Medium
Ahead: Evolution of the Internet of Things
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Feedback: The vendor is providing Kaira's company with an application delivered over the Internet, completely managed by the vendor. This is an example of a SaaS delivery model. SaaS applications are commonly, but not always, accessed through web browsers.
Taxonomy: Apply

4. Which of the following is *not* an example of store-and-forward messaging?
A) Telephone call
B) Voicemail
C) Unified messaging (UM)
D) Email
Ans: A
Complexity: Easy
Ahead: IoT's Impact on Human and Business Life
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Feedback: Store-and-forward communication occurs in near real time and stores messages for later retrieval. Voicemail, UM, and email are all examples of store-and-forward communication. Telephone calls take place in real time and are, therefore, not an example of store-and-forward communication.
Taxonomy: Understand

5. Which of the following is an example of a business-to-consumer (B2C) application of the Internet of Things (IoT)?
A) Video conferencing
B) Infrastructure monitoring
C) Health monitoring
D) Traffic monitoring
Ans: C
Complexity: Easy
Ahead: IoT's Impact on Human and Business Life
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Feedback: Health monitoring solutions are an example of IoT-enabled services provided to individual consumers, in a B2C approach. Video conferencing, infrastructure monitoring, and traffic monitoring are all IoT-enabled services, but they are business-to-business (B2B) services or for municipalities.
Taxonomy: Understand

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6. Which term best describes the sale of goods and services on the Internet, whereby online customers buy those goods and services from a vendor's website and enter private data and checking account or credit card information to pay for them?
A) Software as a Service (SaaS)
B) E-commerce
C) Internet of Things (IoT)
D) Economic development
Ans: B
Complexity: Easy
Ahead: Evolution from Brick and Mortar to E-Commerce
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Feedback:
Taxonomy: Understand

7. Which of the following enables businesses to transform themselves into an Internet of Things (IoT) service offering?
A) Anything as a Service (AaaS) delivery model
B) Remote sensoring
C) Real-time tracking and monitoring
D) Store-and-forward communications
Ans: A
Complexity: Easy
Ahead: IoT's Impact on Human and Business Life
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Feedback: AaaS means that whatever a business is currently doing can be transformed into a hosted, secure cloud solution where its content and information can be accessed from a website.
Taxonomy: Remember

8. Gwen's company is planning to accept credit cards over the Internet. What governs this type of activity and includes provisions that Gwen should implement before accepting credit card transactions?
A) Health Insurance Portability and Accountability Act (HIPAA)
B) Family Educational Rights and Privacy Act (FERPA)
C) Communications Assistance for Law Enforcement Act (CALEA)
D) Payment Card Industry Data Security Standard (PCI DSS)
Ans: D
Complexity: Easy
Ahead: Evolution from Brick and Mortar to E-Commerce
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Feedback: PCI DSS includes a series of assessments and controls that organizations must put in place when serving as a credit card merchant or service provider.
Taxonomy: Understand

9. Ron is the IT director at a medium-sized company. He frequently gets requests from employees who want to select customized mobile devices. He decides to allow them to purchase their own devices. Which type of policy should Ron implement to include the requirements and security controls for this arrangement?

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A) Privacy
B) Bring Your Own Device (BYOD)
C) Acceptable use
D) Data classification
Ans: B
Complexity: Medium
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Feedback: BYOD policies allow employees and contractors to use their own personally chosen and personally procured devices to connect to the network at their office. These policies should include appropriate security controls.
Taxonomy: Understand

10. With the use of Mobile IP, which device is responsible for keeping track of mobile nodes (MNs) and forwarding packets to the MN's current network?
A) Home agent (HA)
B) Foreign agent (FA)
C) Care of address (COA)
D) Correspondent node (CN)
Ans: A
Complexity: Hard
Ahead: Mobile Applications
Subject: Chapter 2
Title: Emerging Technologies Are Changing How We Live
Feedback: The HA is a router with additional capabilities over standard routers. The HA keeps track of the MNs that it manages. When a MN leaves the local network, the HA forwards packets to the MN's current network.
Taxonomy: Understand

11. With the use of Mobile IP, which device is responsible for assigning each mobile node (MN) a local address?
A) Home agent (HA)
B) Foreign agent (FA)
C) Care of address (COA)
D) Correspondent node (CN)
Ans: B
Complexity: Hard
Ahead: Mobile Applications
Subject: Chapter 2
Title: Emerging Technologies Are Changing How We Live
Feedback: The FA is a router connected to a network other than the HA network that assigns the MN a local address.
Taxonomy: Understand

12. In Mobile IP, what term describes a device that would like to communicate with a mobile node (MN)?
A) Home agent (HA)
B) Foreign agent (FA)
C) Care of address (COA)

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D) Correspondent node (CN)
Ans: D
Complexity: Medium
Ahead: Mobile Applications
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Feedback: The CN is the node that wants to communicate with the MN. CNs send messages to the MN's IP address; those messages are then routed to the HA that is responsible for tracking the location of the MN.
Taxonomy: Understand

13. Which action is the best step toward protecting Internet of Things (IoT) devices from becoming the entry point for security vulnerabilities into a network while still meeting business requirements?
A) Applying security updates promptly
B) Using encryption for communications
C) Removing IoT devices from the network
D) Turning IoT devices off when not in use
Ans: A
Complexity: Hard
Ahead: New Challenges Created by the IoT
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Feedback: The best technique that organizations can use to protect IoT devices from becoming compromised and used as entry points to a network is the prompt application of security updates. IoT devices that are not updated or maintained properly may permit vulnerabilities to become entry points into your network or organization.
Taxonomy: Understand

14. What term describes data that has been stripped of personally identifiable information for privacy reasons?
A) Encrypted
B) Proprietary
C) De-identified
D) Compliant
Ans: C
Complexity: Medium
Ahead: New Challenges Created by the IoT
Subject: Chapter 2
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Feedback:
Taxonomy: Remember

15. Which organization pursues standards for Internet of Things (IoT) devices and is widely recognized as the authority for creating standards on the Internet?
A) Internet Society
B) Internet Engineering Task Force (IETF)
C) Internet Association
D) Internet Authority
Ans: B

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Complexity: Medium
Ahead: New Challenges Created by the IoT
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Title: Emerging Technologies Are Changing How We Live
Feedback: The IETF creates and publishes standards for Internet-related activities. It is widely accepted as the authority for technical matters on the Internet.
Taxonomy: Remember

16. From a security perspective, what should organizations expect will occur as they become more dependent on the Internet of Things (IoT)?
A) Security risks will increase.
B) Security risks will decrease.
C) Security risks will stay the same.
D) Security risks will be eliminated.
Ans: A
Complexity: Medium
Ahead: New Challenges Created by the IoT
Subject: Chapter 2
Title: Emerging Technologies Are Changing How We Live
Feedback: As people and businesses become ever more dependent on the IoT, the opportunities will increase for bad actors to attack, steal, and damage. This is why security is the greatest challenge for IoT to overcome.
Taxonomy: Analyze

17. Which of the following would govern the use of Internet of Things (IoT) by health care providers, such as physicians and hospitals?
A) Payment Card Industry Data Security Standard (PCI DSS)
B) Federal Financial Institutions Examination Council (FFIEC)
C) Federal Information Security Management Act (FISMA)
D) Health Insurance Portability and Accountability Act (HIPAA)
Ans: D
Complexity: Medium
Ahead: New Challenges Created by the IoT
Subject: Chapter 2
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Feedback: HIPAA includes provisions that govern the privacy and security of protected health information when handled by covered entities, including health care providers.
Taxonomy: Understand

18. Which compliance obligation includes security requirements that apply specifically to the European Union?
A) Gramm-Leach-Bliley Act (GLBA)
B) Health Insurance Portability and Accountability Act (HIPAA)
C) General Data Protection Regulation (GDPR)
D) Federal Information Security Management Act (FISMA)
Ans: C
Complexity: Medium
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Feedback: The General Data Protection Regulation (GDPR) applies to the European Union.
Taxonomy: Remember

19. What is key to implementing a consistent Internet of Things (IoT) device, connectivity, and communications environment?
A) Interoperability and standards
B) Privacy laws
C) Proprietary solutions
D) Broadband capacity
Ans: A
Complexity: Medium
Ahead: New Challenges Created by the IoT
Subject: Chapter 2
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Feedback: Without interoperability and standards among IoT devices, there would be a lack of communication and information sharing. It may cause multiple IoT environments in which the devices may not be able to communicate or share data, which then creates more issues with multiple IoT devices and IoT disparate networks that only those devices can connect to and share information with.
Taxonomy: Understand

True/False

1. True or False? Application service providers (ASPs) are software companies that build applications hosted in the cloud and on the Internet.
Ans: True
Complexity: Medium
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Feedback:
Taxonomy:

2. True or False? Posting a comment on social media is an example of real-time communication.
Ans: True
Complexity: Easy
Ahead: IoT's Impact on Human and Business Life
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Feedback:
Taxonomy:

3. True or False? Store-and-forward communications should be used when you need to talk to someone immediately.
Ans: False
Complexity: Easy

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Ahead: IoT's Impact on Human and Business Life
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Feedback: When you need to talk to someone immediately, real-time communication is the preferred mode. When you do not need an immediate response from someone you choose to contact, store-and-forward communications may be used.
Taxonomy:

4. True or False? Facility automation uses Internet of Things (IoT) to integrate automation into business functions to reduce reliance on machinery.
Ans: False
Complexity: Medium
Ahead: IoT's Impact on Human and Business Life
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Feedback: The intent of facility automation is to reduce reliance on humans.
Taxonomy:

5. True or False? Utility companies are incorporating Internet-connected sensors into their business functions.
Ans: True
Complexity: Easy
Ahead: IoT's Impact on Human and Business Life
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Feedback:
Taxonomy:

6. True or False? E-commerce systems and applications demand strict confidentiality, integrity, and availability (C-I-A) security controls.
Ans: True
Complexity: Easy
Ahead: Evolution from Brick and Mortar to E-Commerce
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Feedback:
Taxonomy:

7. True or False? Smart cities can monitor and report on real-time traffic conditions using Internet of Things (IoT) technology.
Ans: True
Complexity: Medium
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Taxonomy:

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8. True or False? In e-business, secure web applications are one of the critical security controls that each organization must implement to reduce risk.
Ans: True
Complexity: Hard
Ahead: Why Businesses Must Have an Internet and IoT Marketing Strategy
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Feedback:
Taxonomy:

9. True or False? Bring Your Own Device (BYOD) often replaces the need for the organization to procure limited mobile device model options and issue them to employees for individual use.
Ans: True
Complexity: Medium
Ahead: IP Mobility
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Feedback:
Taxonomy:

10. True or False? Bring Your Own Device (BYOD) opens the door to considerable security issues.
Ans: True
Complexity: Medium
Ahead: IP Mobility
Subject: Chapter 2
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Feedback:
Taxonomy:

11. True or False? Using Mobile IP, users can move between segments on a local area network (LAN) and stay connected without interruption.
Ans: True
Complexity: Medium
Ahead: Mobile Applications
Subject: Chapter 2
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Feedback:
Taxonomy:

12. True or False? Each 5G device has a unique Internet Protocol (IP) address and appears just like any other wired device on a network.
Ans: True
Complexity: Hard
Ahead: Mobile Applications
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Feedback:
Taxonomy:

13. True or False? A challenge created by the Internet of Things (IoT) is how to protect personal identity and private data from theft or unauthorized access.
Ans: True
Complexity: Medium
Ahead: New Challenges Created by the IoT
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Feedback:
Taxonomy:

14. True or False? Vehicles that have Wi-Fi access and onboard computers require software patches and upgrades from the manufacturer.
Ans: True
Complexity: Easy
Ahead: New Challenges Created by the IoT
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Feedback:
Taxonomy:

15. True or False? The ownership of Internet of Things (IoT) data, as well as the metadata of that data, is sometimes in question.
Ans: True
Complexity: Hard
Ahead: New Challenges Created by the IoT
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Feedback:
Taxonomy:

16. True or False? Metadata of Internet of Things (IoT) devices is sometimes sold to companies seeking demographic marketing data about users and their spending habits.
Ans: True
Complexity: Medium
Ahead: New Challenges Created by the IoT
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Taxonomy:

17. True or False? Internet of Things (IoT) devices cannot share and communicate your IoT device data to other systems and applications without your authorization or knowledge.

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Ans: False
Complexity: Hard
Ahead: New Challenges Created by the IoT
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Feedback: IoT devices can share and communicate your IoT device data to other systems and applications without your authorization or knowledge.
Taxonomy:

18. True or False? Internet of Things (IoT) upgrades can be difficult to distribute and deploy, leaving gaps in the remediation of IoT devices or endpoints.
Ans: True
Complexity: Medium
Ahead: New Challenges Created by the IoT
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Feedback:
Taxonomy:

19. True or False? Vendors or service providers that have remote access to an Internet of Things (IoT) device may be able to pull information or data from your device without your permission.
Ans: True
Complexity: Medium
Ahead: New Challenges Created by the IoT
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Feedback:
Taxonomy:

20. True or False? Internet of Things (IoT) devices are typically physically secure.
Ans: False
Complexity: Hard
Ahead: New Challenges Created by the IoT
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Feedback: Internet of Things (IoT) devices typically are not physically secure and can be located anywhere in public areas or outside your house.
Taxonomy:

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