

Review (Self-Assessment) Question Answer Key

Course Title:

ITG250: Cybersecurity Audit School

CPE Requirement:

32

Total Questions Needed:

96

Episode	Topic Area	Question	Answer A	Answer B	Answer C	Answer D	Correct Answer	Explanations
1.1	Cybersecurity Key Concepts	This US Federal Agency defines Cybersecurity as the "Prevention of damage to, protection of, and restoration of computers, electronic communications systems, electronic communications services, wire communication, and electronic communication, including information contained therein, to ensure its availability, integrity, authentication, confidentiality, and nonrepudiation":	National Institute of Standards and Technology (NIST).	National Initiative for Security and Terminology (NIST).	ACI Learning.	International Standards Organization (ISO).	A	<p>A Correct NIST is the US agency responsible for establishing Cybersecurity Standards.</p> <p>B Incorrect NIST is the US agency responsible for establishing Cybersecurity Standards.</p> <p>C Incorrect NIST is the US agency responsible for establishing Cybersecurity Standards.</p> <p>D Incorrect NIST is the US agency responsible for establishing Cybersecurity Standards.</p>
1.1	Cybersecurity Key Concepts	Which of the following is not one of Saltzer and Schroeder's Design Principles?	Economy of mechanism	Fail-safe defaults	Multi-factor authentication	Least privilege	C	<p>A Incorrect While multi-factor authentication is a good security practice today, it's not explicitly contained in the article.</p> <p>B Incorrect While multi-factor authentication is a good security practice today, it's not explicitly contained in the article.</p> <p>C Correct While multi-factor authentication is a good security practice today, it's not explicitly contained in the article.</p> <p>D Incorrect While multi-factor authentication is a good security practice today, it's not explicitly contained in the article.</p>
1.2	Cybersecurity History and Breaches	What was the name of the malicious worm that infected many corporations on the internet in 2000?	Brain	Morris the cat	ILOVEYOU	Stuxnet	C	<p>A Incorrect The ILOVEYOU Worm traveled across the internet through email.</p> <p>B Incorrect The ILOVEYOU Worm traveled across the internet through email.</p> <p>C Correct The ILOVEYOU Worm traveled across the internet through email.</p> <p>D Incorrect The ILOVEYOU Worm traveled across the internet through email.</p>
1.2	Cybersecurity History and Breaches	In what year was the Advanced Encryption Standard (AES) published by NIST?	1983	1990	2001	2010	C	<p>A Incorrect AES was established as the symmetric encryption standard by NIST in 2001, replacing DES.</p> <p>B Incorrect AES was established as the symmetric encryption standard by NIST in 2001, replacing DES.</p> <p>C Correct AES was established as the symmetric encryption standard by NIST in 2001, replacing DES.</p> <p>D Incorrect AES was established as the symmetric encryption standard by NIST in 2001, replacing DES.</p>
1.2	Cybersecurity History and Breaches	This organization's data breach in 2018 impacted over 1.1 billion records and is considered one of the top five data breaches in history.	MySpace	Aadhaar	OxyData	Microsoft	B	<p>A Incorrect The Aadhaar data breach impacted approx. 1.1 billion Indian citizens, as shown on the Informationisbeautiful website. The other answers had less impact or occurred at a different time.</p> <p>B Correct The Aadhaar data breach impacted approx. 1.1 billion Indian citizens, as shown on the Informationisbeautiful website. The other answers had less impact or occurred at a different time.</p> <p>C Incorrect The Aadhaar data breach impacted approx. 1.1 billion Indian citizens, as shown on the Informationisbeautiful website. The other answers had less impact or occurred at a different time.</p>

Types of Cyber Attacks - 1.3 Human

6 This form of cybercrime uses email fraud to attack commercial, government, and non-profit organizations: **Business Email Compromise (BEC).** Business-to-Business Phishing (B2BP). Internet worms. Adware. A

- D Incorrect The Aadhaar data breach impacted approx. 1.1 billion Indian citizens, as shown on the Information is beautiful website. The other answers had less impact or occurred at a different time.
- A **Correct** BEC is a top concern for the US FBI and is one of the most financially damaging online crimes.
- B Incorrect BEC is a top concern for the US FBI and is one of the most financially damaging online crimes.
- C Incorrect BEC is a top concern for the US FBI and is one of the most financially damaging online crimes.
- D Incorrect BEC is a top concern for the US FBI and is one of the most financially damaging online crimes.

Types of Cyber Attacks - 1.3 Human

7 This form of phishing uses smartphone text messages to proliferate: Whaling. **SMSishing.** Spear Phishing. Vishing. B

- A Incorrect SMSishing uses SMS or text messages to send fraudulent messages via cell/smartphones.
- B **Correct** SMSishing uses SMS or text messages to send fraudulent messages via cell/smartphones.
- C Incorrect SMSishing uses SMS or text messages to send fraudulent messages via cell/smartphones.
- D Incorrect SMSishing uses SMS or text messages to send fraudulent messages via cell/smartphones.

Types of Cyber Attacks - 1.4 Technical

8 This is a type of malicious software designed to block access to a computer system until a sum of money is paid: **Ransomware.** Business Account Compromise (BAC). Botnet. Malware. A

- A **Correct** This is the definition of ransomware, a form of malware that locks computers requiring a ransom.
- B Incorrect This is the definition of ransomware, a form of malware that locks computers requiring a ransom.
- C Incorrect This is the definition of ransomware, a form of malware that locks computers requiring a ransom.
- D Incorrect This is the definition of ransomware, a form of malware that locks computers requiring a ransom.

Types of Cyber Attacks - 1.4 Technical

9 A _____ attack uses multiple systems (network IP addresses, web servers, etc.) to flood the bandwidth or resources of a targeted system. Zombie Phishing **Distributed Denial-of-Service (DDoS)** Botnet C

- A Incorrect This is a standard definition for a distributed denial-of-service (DDoS) attack. It may use "zombie" computers as part of a larger botnet.
- B Incorrect This is a standard definition for a distributed denial-of-service (DDoS) attack. It may use "zombie" computers as part of a larger botnet.
- C **Correct** This is a standard definition for a distributed denial-of-service (DDoS) attack. It may use "zombie" computers as part of a larger botnet.
- D Incorrect This is a standard definition for a distributed denial-of-service (DDoS) attack. It may use "zombie" computers as part of a larger botnet.

Types of Cyber Attacks - 1.4 Technical

10 This type of technical attack is typically perpetrated by a nation-state or state-sponsored group, which gains unauthorized access to a computer network and remains undetected for an extended period. Distributed Denial-of-Service (DDoS) **Advanced Persistent Threat (APT)** Ransomware Zero-Day B

- A Incorrect This is a standard definition for an APT attack where the attackers are from one nation attacking the resources in another by using stealthy tactics for long-term access.
- B **Correct** This is a standard definition for an APT attack where the attackers are from one nation attacking the resources in another by using stealthy tactics for long-term access.
- C Incorrect This is a standard definition for an APT attack where the attackers are from one nation attacking the resources in another by using stealthy tactics for long-term access.
- D Incorrect This is a standard definition for an APT attack where the attackers are from one nation attacking the resources in another by using stealthy tactics for long-term access.

Cybersecurity Frameworks, Standards, and Regulations	1.5 Overview	11	Which company is not part of the Payment Card Industry (PCI) Security Standards Council (SSC)?	Visa	Mastercard	Discover	Microsoft	D	<p>A Incorrect Microsoft is not included in setting security standards for payment cards (credit and debit cards). The other three companies listed created a joint standard in 2004.</p> <p>B Incorrect Microsoft is not included in setting security standards for payment cards (credit and debit cards). The other three companies listed created a joint standard in 2004.</p> <p>C Incorrect Microsoft is not included in setting security standards for payment cards (credit and debit cards). The other three companies listed created a joint standard in 2004.</p> <p>D Correct Microsoft is not included in setting security standards for payment cards (credit and debit cards). The other three companies listed created a joint standard in 2004.</p>
Cybersecurity Frameworks, Standards, and Regulations	1.5 Overview	12	This international standard provides requirements for information security management systems (ISMS):	NIST Cybersecurity Framework.	Center for Internet Security (CIS) Controls.	Payment Card Industry Data Security Standard (PCI DSS).	ISO/IEC 27001.	D	<p>A Incorrect The ISO/IEC 27000 family provides more than a dozen standards for cybersecurity and information system security. NIST is not international, and the Center for Internet Security provides security guides</p> <p>B Incorrect The ISO/IEC 27000 family provides more than a dozen standards for cybersecurity and information system security. NIST is not international, and the Center for Internet Security provides security guides</p> <p>C Incorrect The ISO/IEC 27000 family provides more than a dozen standards for cybersecurity and information system security. NIST is not international, and the Center for Internet Security provides security guides</p> <p>D Correct The ISO/IEC 27000 family provides more than a dozen standards for cybersecurity and information system security. NIST is not international, and the Center for Internet Security provides security guides</p>
Cybersecurity Frameworks, Standards, and Regulations	1.5 Overview	13	This is a suite of service offerings CPAs may provide in connection with system-level controls of a service organization:	Statements on Standards for Attestation Engagements (SSAE).	System and Organization Controls (SOC).	ISO/IEC 27000 Security Control Family.	Center for Internet Security (CIS) Controls.	B	<p>A Incorrect SOC provides a suite of services provided by the AICPA to establish security control standards for auditors.</p> <p>B Correct SOC provides a suite of services provided by the AICPA to establish security control standards for auditors.</p> <p>C Incorrect SOC provides a suite of services provided by the AICPA to establish security control standards for auditors.</p> <p>D Incorrect SOC provides a suite of services provided by the AICPA to establish security control standards for auditors.</p>
NIST Frameworks and	1.6 Standards	14	This NIST document series contains computer/cyber/information and security guidelines, recommendations, and reference materials:	Special Publication (SP) 800.	Security Policy (SP).	Computer Security Resource Center (CSRC) Directives.	Federal Information Processing Standard (FIPS) 199.	A	<p>A Correct NIST uses the Special Publication (SP) 800 subseries for its cybersecurity directives. The CSRC is responsible for the development of SPs.</p> <p>B Incorrect NIST uses the Special Publication (SP) 800 subseries for its cybersecurity directives. The CSRC is responsible for the development of SPs.</p> <p>C Incorrect NIST uses the Special Publication (SP) 800 subseries for its cybersecurity directives. The CSRC is responsible for the development of SPs.</p>

NIST Frameworks and 1.6 Standards	15	This NIST Framework consists of five functions for protecting information technology assets in any sized organization:	Risk Management Framework (RMF).	Special Publication Standards.	Cybersecurity Framework (CSF).	Security and Privacy Controls Framework (SPCF).	C	<p>D Incorrect NIST uses the Special Publication (SP) 800 subseries for its cybersecurity directives. The CSRC is responsible for the development of SPs.</p> <p>A Incorrect The NIST Cybersecurity Framework has five functions for managing IT security programs. It is voluntary and based on existing NIST cybersecurity Standards.</p> <p>B Incorrect The NIST Cybersecurity Framework has five functions for managing IT security programs. It is voluntary and based on existing NIST cybersecurity Standards.</p> <p>C Correct The NIST Cybersecurity Framework has five functions for managing IT security programs. It is voluntary and based on existing NIST cybersecurity Standards.</p> <p>D Incorrect The NIST Cybersecurity Framework has five functions for managing IT security programs. It is voluntary and based on existing NIST cybersecurity Standards.</p>
NIST Frameworks and 1.6 Standards	16	Which of the following is not a goal of the NIST Risk and Cybersecurity Frameworks?	Standard operating instructions for all organizations	Consistent and cost-effective application of security controls	Repeatable processes	A technology-neutral and flexible approach	A	<p>A Correct NIST focuses on strategic directions and processes rather than industry or area-specific operations. The others are listed goals of the NIST RMF and CSF.</p> <p>B Incorrect NIST focuses on strategic directions and processes rather than industry or area-specific operations. The others are listed goals of the NIST RMF and CSF.</p> <p>C Incorrect NIST focuses on strategic directions and processes rather than industry or area-specific operations. The others are listed goals of the NIST RMF and CSF.</p> <p>D Incorrect NIST focuses on strategic directions and processes rather than industry or area-specific operations. The others are listed goals of the NIST RMF and CSF.</p>
Industry Frameworks (PCI, HIPAA, CIS, CSC, 1.7 ISO/IEC)	17	This International Standard contains over 110 specific cybersecurity controls:	ISO/IEC 27001.	ISO/IEC 27002.	ISO/IEC 27005.	NIST SP800-53r5.	B	<p>A Incorrect ISO/IEC 27002:2013, The Code of Practice for Information Security Management provides direction on 14 security control groups and addresses 35 control objectives and more than 110 individual controls.</p> <p>B Correct ISO/IEC 27002:2013, The Code of Practice for Information Security Management provides direction on 14 security control groups and addresses 35 control objectives and more than 110 individual controls.</p> <p>C Incorrect ISO/IEC 27002:2013, The Code of Practice for Information Security Management provides direction on 14 security control groups and addresses 35 control objectives and more than 110 individual controls.</p> <p>D Incorrect ISO/IEC 27002:2013, The Code of Practice for Information Security Management provides direction on 14 security control groups and addresses 35 control objectives and more than 110 individual controls.</p>
Industry Frameworks (PCI, HIPAA, CIS, CSC, 1.7 ISO/IEC)	18	How many domains are included in the PCI Data Security Standard (DSS)?	5	10	12	24	C	<p>A Incorrect The PCI Data Security Standard (DSS) is composed of 12 domains with more than 300 controls, each of which includes testing procedures and corresponding guidance on how to implement them.</p> <p>B Incorrect The PCI Data Security Standard (DSS) is composed of 12 domains with more than 300 controls, each of which includes testing procedures and corresponding guidance on how to implement them.</p> <p>C Correct The PCI Data Security Standard (DSS) is composed of 12 domains with more than 300 controls, each of which includes testing procedures and corresponding guidance on how to implement them.</p> <p>D Incorrect The PCI Data Security Standard (DSS) is composed of 12 domains with more than 300 controls, each of which includes testing procedures and corresponding guidance on how to implement them.</p>

Industry Frameworks (PCI, HIPAA, CIS, CSC, ISO/IEC)	1.7	19	In the United States, this term relates to an individual's past, present, or future physical or mental health or condition and to the provision of health care to an individual:	Personal Health Data (PHD).	Personally Identifiable Information (PII).	HIPAA.	Protected Health Information (PHI).	D	<p>A Incorrect This is the standard definition for Protected Health Information (PHI) as defined in the US HIPAA regulation.</p> <p>B Incorrect This is the standard definition for Protected Health Information (PHI) as defined in the US HIPAA regulation.</p> <p>C Incorrect This is the standard definition for Protected Health Information (PHI) as defined in the US HIPAA regulation.</p> <p>D Correct This is the standard definition for Protected Health Information (PHI) as defined in the US HIPAA regulation.</p>
Cybersecurity Oversight, Governance, and	1.8	20	This is a strategic planning responsibility providing organizational oversight that sets policies and establishes practices for enforcement:	Leadership.	Compliance.	Audit.	Governance.	D	<p>A Incorrect This is the standard definition of Governance.</p> <p>B Incorrect This is the standard definition of Governance.</p> <p>C Incorrect This is the standard definition of Governance.</p> <p>D Correct This is the standard definition of Governance.</p>
Cybersecurity Oversight, Governance, and	1.8	21	Which of the following is not a standard strategic security control relative to the timing of security incidents?	Administrative	Preventive	Detective	Corrective	A	<p>A Correct Administrative controls can include the other three types of controls listed.</p> <p>B Incorrect Before the event, preventive controls are intended to prevent an incident from occurring.</p> <p>C Incorrect During the event, detective controls are intended to identify and characterize an incident in progress.</p> <p>D Incorrect After the event, corrective controls are intended to limit the extent of any damage caused by the incident.</p>
Cybersecurity Oversight, Governance, and	1.8	22	This level of management communicates the mission priorities, available resources, and overall risk tolerance to the layers below as a part of governance:	Chief Security Officer.	Corporate Executives.	IT Operations.	Audit Director.	B	<p>A Incorrect The executive level communicates the mission priorities, available resources, and overall risk tolerance to the business/process level.</p> <p>B Correct The executive level communicates the mission priorities, available resources, and overall risk tolerance to the business/process level.</p> <p>C Incorrect The executive level communicates the mission priorities, available resources, and overall risk tolerance to the business/process level.</p> <p>D Incorrect The executive level communicates the mission priorities, available resources, and overall risk tolerance to the business/process level.</p>
Security	1.9	23	These are formal statements or rules that specify correct or expected behavior in companies:	Policies.	Standards.	Controls.	Regulations.	A	<p>A Correct Policies are formal corporate statements or rules that specify correct or expected behavior.</p> <p>B Incorrect Standards are mandatory actions or rules that provide support or direction on how to comply with policies.</p> <p>C Incorrect Controls are specifications for implementing policy.</p> <p>D Incorrect Regulations are specific rules for a government body, not a company.</p>
Security	1.9	24	This ensures that tasks are completed in the same way each time:	Policies.	Standards.	Procedures.	Guidelines.	C	<p>A Incorrect Procedures are written processes that provide step-by-step details and are required by policy.</p> <p>B Incorrect Procedures are written processes that provide step-by-step details and are required by policy.</p> <p>C Correct Procedures are written processes that provide step-by-step details and are required by policy.</p>

Security 1.9 Policies	25	Which of the following should be included in a corporate policy document?	Purpose	Audience	Both A and B	Neither A nor B	C	<p>D Incorrect Procedures are written processes that provide step-by-step details and are required by policy.</p> <p>A Incorrect All of these items should be included in corporate policies.</p> <p>B Incorrect All of these items should be included in corporate policies.</p> <p>C Correct All of these items should be included in corporate policies.</p> <p>D Incorrect All of these items should be included in corporate policies.</p>
Security Risk Managem ent 1.1 Overview	26	This is the level of risk an entity is willing to assume in order to achieve a potential desired result:	Risk Tolerance.	Risk Score.	Risk Analysis.	Threat Allowance.	A	<p>A Correct Risk tolerance or appetite is the number of risks organizations or people are willing to take.</p> <p>B Incorrect Risk tolerance or appetite is the number of risks organizations or people are willing to take.</p> <p>C Incorrect Risk tolerance or appetite is the number of risks organizations or people are willing to take.</p> <p>D Incorrect Risk tolerance or appetite is the number of risks organizations or people are willing to take.</p>
Security Risk Managem ent 1.1 Overview	27	Non-compliance with laws, standards, or requirements is considered which type of risk?	Technical	Procedural	Management	Operational	C	<p>A Incorrect Non-compliance with control requirements is a management risk.</p> <p>B Incorrect Non-compliance with control requirements is a management risk.</p> <p>C Correct Non-compliance with control requirements is a management risk.</p> <p>D Incorrect Non-compliance with control requirements is a management risk.</p>
Security Risk Managem ent 1.1 Overview	28	Which of the following is not considered a normal part of the strategic risk management process?	Conducting a risk assessment	Implementing risk mitigation	Continuous monitoring of risks	Transferring risk	D	<p>A Incorrect Transferring risk is a type of risk mitigation and is considered at the tactical level.</p> <p>B Incorrect Transferring risk is a type of risk mitigation and is considered at the tactical level.</p> <p>C Incorrect Transferring risk is a type of risk mitigation and is considered at the tactical level.</p> <p>D Correct Transferring risk is a type of risk mitigation and is considered at the tactical level.</p>
Threat 1.11 Analysis	29	_____ is the method or path a threat will use to access a real or potential target.	Threat source	Threat vector	Threat modeling	Risk vector	B	<p>A Incorrect The threat vector is the way a threat will gain access to a target to incur a loss.</p> <p>B Correct The threat vector is the way a threat will gain access to a target to incur a loss.</p> <p>C Incorrect The threat vector is the way a threat will gain access to a target to incur a loss.</p> <p>D Incorrect The threat vector is the way a threat will gain access to a target to incur a loss.</p>
Threat 1.11 Analysis	30	This is the process for identifying real or potential threats using multiple sources to proactively prevent or mitigate attacks.	Risk Management.	Vulnerability Assessments.	Threat intelligence.	Threat analysis.	C	<p>A Incorrect Cyber threat intelligence is what cyber threat information becomes once it has been collected, evaluated in the context of its source and reliability, and analyzed through rigorous and structured tradecraft techniques by those with substantive expertise and access to all-source information.</p> <p>B Incorrect Cyber threat intelligence is what cyber threat information becomes once it has been collected, evaluated in the context of its source and reliability, and analyzed through rigorous and structured tradecraft techniques by those with substantive expertise and access to all-source information.</p> <p>C Correct Cyber threat intelligence is what cyber threat information becomes once it has been collected, evaluated in the context of its source and reliability, and analyzed through rigorous and structured tradecraft techniques by those with substantive expertise and access to all-source information.</p>

Threat 1.11 Analysis	31	What website provides a matrix that catalogs types of threats based on their threat vector?	NIST CSRC	MITRE Common Vulnerability Enumeration (CVE)	MITRE ATT&CK® Framework	Staysafeonline.org	C	<p>D Incorrect Cyber threat intelligence is what cyber threat information becomes once it has been collected, evaluated in the context of its source and reliability, and analyzed through rigorous and structured tradecraft techniques by those with substantive expertise and access to all-source information.</p> <p>A Incorrect MITRE ATT&CK® is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations.</p> <p>B Incorrect MITRE ATT&CK® is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations.</p> <p>C Correct MITRE ATT&CK® is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations.</p> <p>D Incorrect MITRE ATT&CK® is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations.</p>
Security Risk Management in 1.12 Practice	32	This is a measure of the extent to which an entity is threatened by a potential circumstance or event:	Risk.	Threat.	Vulnerability.	Control.	A	<p>A Correct Risk is defined as "a measure of the extent to which an entity is threatened by a potential circumstance or event."</p> <p>B Incorrect Risk is defined as "a measure of the extent to which an entity is threatened by a potential circumstance or event."</p> <p>C Incorrect Risk is defined as "a measure of the extent to which an entity is threatened by a potential circumstance or event."</p> <p>D Incorrect Risk is defined as "a measure of the extent to which an entity is threatened by a potential circumstance or event."</p>
Security Risk Management in 1.12 Practice	33	This type of risk analysis uses numeric values to calculate actual risk measures:	Threat modeling.	Qualitative.	Quantitative.	Vulnerability assessments.	C	<p>A Incorrect Quantitative risk analysis uses specific frequency and impact values to define specific risk amounts.</p> <p>B Incorrect Quantitative risk analysis uses specific frequency and impact values to define specific risk amounts.</p> <p>C Correct Quantitative risk analysis uses specific frequency and impact values to define specific risk amounts.</p> <p>D Incorrect Quantitative risk analysis uses specific frequency and impact values to define specific risk amounts.</p>
Security Risk Management in 1.12 Practice	34	Risk _____ is making the decision not to engage in the actions associated with that risk.	Mitigation	Avoidance	Acceptance	Transfer	B	<p>A Incorrect Avoiding the risk removes it from the environment, for example, turning off a vulnerable system.</p> <p>B Correct Avoiding the risk removes it from the environment, for example, turning off a vulnerable system.</p> <p>C Incorrect Avoiding the risk removes it from the environment, for example, turning off a vulnerable system.</p> <p>D Incorrect Avoiding the risk removes it from the environment, for example, turning off a vulnerable system.</p>
Asset Identification and 2.1 Inventory	35	This is a list of your most important systems, devices, software, services, and data:	Asset Inventory.	System Security Plan	Systems database.	Business Impact Analysis (BIA).	A	<p>A Correct Creating and maintaining an Asset Inventory is the first step in the Identify Category.</p> <p>B Incorrect A System Security Plan contains information about the security of specific assets.</p> <p>C Incorrect While your asset inventory may be contained in a systems database, the correct name is an asset inventory.</p> <p>D Incorrect Your BIA prioritizes systems and operations.</p>
Asset Identification and 2.1 Inventory	36	These are graphical charts that depict the layout of your computer or telecommunications network:	Network Charts.	Data Flow Diagram.	Network Diagrams.	Bit Map.	C	<p>A Incorrect The correct name is a network diagram.</p>

Third-Party/Service Provider Management	2.2	37	This external role owns or manages assets under contract for the benefit of an organization:	Internal Server Farm Administrators.	Infrastructure as a Service (IaaS).	Third-Party Service Providers.	Cloud Service Providers.	C	<p>A data flow diagram uses a network diagram to show how data traverses a network.</p> <p>B Incorrect This is the definition of a network diagram.</p> <p>C Correct This is the definition of a network diagram.</p> <p>D Incorrect Bitmap is used in computer graphics.</p>
Third-Party/Service Provider Management	2.2	38	This organization is a world leader dedicated to defining and raising awareness of best practices to ensure a secure cloud computing environment:	FedRAMP.	NIST CSRC.	PCI SSC.	Cloud Security Alliance (CSA).	D	<p>A Incorrect FedRAMP is a US cloud provider certification.</p> <p>B Incorrect NIST CSRC provides general standards and guidelines for information technology and security.</p> <p>C Incorrect The PCI SSC provides standards and certification for card service providers.</p> <p>D Correct The CSA provides guidance, training, and certification in cloud security.</p>
Business Impact Assessment	2.3	39	This is used to survey organizational leaders to identify the potential impacts if a business function or process is interrupted:	Business Impact Assessment (BIA) Questionnaire.	Business Risk Survey.	Threat Analysis.	Vulnerability Assessment.	A	<p>A Correct A BIA Questionnaire is used to capture information on business impacts.</p> <p>B Incorrect The standard name is a Business Impact Assessment rather than Risk Survey.</p> <p>C Incorrect Threat analysis is a part of the risk assessment process.</p> <p>D Incorrect Vulnerabilities assessments capture real or potential weaknesses.</p>
Business Impact Assessment	2.3	40	Which of the following is not determined in the BIA process?	MTD - Maximum Tolerable Downtime	RTO - Recovery Time Objective	SLA - Service Level Agreement	RPO - Recovery Point Objective	C	<p>A Incorrect The SLA is an agreement between the client and service provider for a level of service requirements.</p> <p>B Incorrect The SLA is an agreement between the client and service provider for a level of service requirements.</p> <p>C Correct The SLA is an agreement between the client and service provider for a level of service requirements.</p> <p>D Incorrect The SLA is an agreement between the client and service provider for a level of service requirements.</p>
Configuration Management and Change	2.4	41	This is a repository that stores specific configuration information for systems, services, and technical assets:	Data Flow Diagram.	Configuration Management Data Base (CMDB).	Software inventory list.	Active Directory Users and Computers.	B	<p>A Incorrect The CMDB documents systems settings and management information.</p> <p>B Correct The CMDB documents systems settings and management information.</p> <p>C Incorrect The CMDB documents systems settings and management information.</p> <p>D Incorrect The CMDB documents systems settings and management information.</p>
Configuration Management and Change	2.4	42	This is the formal process to identify, analyze, approve, and document changes to assets:	Configuration Management.	Change Management.	Inventory Management.	Baselining.	B	<p>A Incorrect This is the definition of change management.</p> <p>B Correct This is the definition of change management.</p> <p>C Incorrect This is the definition of change management.</p> <p>D Incorrect This is the definition of change management.</p>

Defending Business Assets	3.1 Overview	43	A _____ is a defense or countermeasure put in place to manage risk.	Firewall	Threat protection	Deterrent	Control	D	<p>A Incorrect A firewall is a specific type of control.</p> <p>B Incorrect This is a fabricated term.</p> <p>C Incorrect Deterrent is a type of control.</p> <p>D Correct This is the general definition of a control.</p>
Defending Business Assets	3.1 Overview	44	This is the software that supports a computer's basic functions and provides an additional layer of protection; examples include Windows and macOS:	Operating system.	Antivirus.	Systems administration.	Kernel.	A	<p>A Correct The operating system is the layer between hardware and applications.</p> <p>B incorrect The operating system is the layer between hardware and applications.</p> <p>C incorrect The operating system is the layer between hardware and applications.</p> <p>D incorrect The operating system is the layer between hardware and applications.</p>
Identity and Access Management	3.2 nt	45	In this process, the subject provides a unique and distinguishing name, account number, or user-id:	Identification.	Authentication.	Authorization.	Accounting.	A	<p>A Correct Identification can be a unique and distinguishing name, account number, or user-id.</p> <p>B incorrect Identification can be a unique and distinguishing name, account number, or user-id.</p> <p>C incorrect Identification can be a unique and distinguishing name, account number, or user-id.</p> <p>D incorrect Identification can be a unique and distinguishing name, account number, or user-id.</p>
Identity and Access Management	3.2 nt	46	This is a repository of an organization's network resources, assets, and users that usually follows a hierarchical database standard format:	Configuration Management Data Base (CMDB).	Server Inventory System.	Kerberos.	Directory Service.	D	<p>A incorrect A CMDB is used by management to store configuration and asset inventory information.</p> <p>B incorrect This is a fabricated term.</p> <p>C incorrect Kerberos is a method for authentication.</p> <p>D Correct Directory services are software systems that store, organize, and provide access to directory information to unify network resources.</p>
Authentication and Authorization	3.3 on	47	A smartcard, token, or device is an example of which form of authentication?	Something you have	Something you know	Something you wear	Something you are	A	<p>A Correct These are examples of something you have.</p> <p>B Incorrect These are examples of something you have.</p> <p>C Incorrect These are examples of something you have.</p> <p>D Incorrect These are examples of something you have.</p>
Authentication and Authorization	3.3 on	48	This form of authentication can be a physical device or software application that contains a digital certificate to verify identity:	Biometrics.	Tokens.	Passwords.	Fingerprint Scanner.	B	<p>A Incorrect Tokens can be a physical device or software that contains the subject's identification verification, usually in the form of a digital certificate.</p> <p>B Correct Tokens can be a physical device or software that contains the subject's identification verification, usually in the form of a digital certificate.</p> <p>C Incorrect Tokens can be a physical device or software that contains the subject's identification verification, usually in the form of a digital certificate.</p> <p>D Incorrect Tokens can be a physical device or software that contains the subject's identification verification, usually in the form of a digital certificate.</p>
Vulnerability and Patch Management	3.4 nt	49	A _____ is a flaw or weakness in an information system, system security procedures, internal controls, or implementation that could be exploited or triggered by a threat like a cybercriminal.	Software bug	Vulnerability	Threat	Risk	B	<p>A Incorrect This is the NIST definition of vulnerability.</p> <p>B Correct This is the NIST definition of vulnerability.</p> <p>C Incorrect This is the NIST definition of vulnerability.</p> <p>D Incorrect This is the NIST definition of vulnerability.</p>

Vulnerability and Patch Management 3.4 nt	50	This form of vulnerability remediation applies a software update to fix a bug or improve the application:	Upgrade.	Configuration setting.	Policy.	Patch.	D	<p>A Incorrect A software patch fixes known security or functionality issues.</p> <p>B Incorrect A software patch fixes known security or functionality issues.</p> <p>C Incorrect A software patch fixes known security or functionality issues.</p> <p>D Correct A software patch fixes known security or functionality issues.</p>
Security 3.5 Awareness	51	What is the root cause of most security breaches?	Malicious hackers	Human failure	Computer viruses	Poor passwords	B	<p>A Incorrect Human failure is the root cause of most security failures.</p> <p>B Correct Human failure is the root cause of most security failures.</p> <p>C Incorrect Human failure is the root cause of most security failures.</p> <p>D Incorrect Human failure is the root cause of most security failures.</p>
Security 3.5 Awareness	52	When should users receive security awareness training?	Continually	At employee orientation	Both A and B	Neither A nor B	C	<p>A Incorrect Users should receive security awareness training continually and at employee orientation.</p> <p>B Incorrect Users should receive security awareness training continually and at employee orientation.</p> <p>C Correct Users should receive security awareness training continually and at employee orientation.</p> <p>D Incorrect Users should receive security awareness training continually and at employee orientation.</p>
Physical 3.6 Security	53	What is always the top priority for security?	Human life safety	Online safety	Crime prevention	Compliance with regulations	A	<p>A Correct The safety of humans and preservation of life is always the number one priority.</p> <p>B Incorrect The safety of humans and preservation of life is always the number one priority.</p> <p>C Incorrect The safety of humans and preservation of life is always the number one priority.</p> <p>D Incorrect The safety of humans and preservation of life is always the number one priority.</p>
Physical 3.6 Security	54	This is a multi-disciplinary approach that uses urban and architectural design and the management of built and natural environments to reduce the potential for crime:	Criminal Derrance Using Natural Terrain (CDUNT).	Barrier and Detection Installation and Management (BDIM).	Crime Prevention Through Environmental Design (CPTED).	Man traps.	C	<p>A Incorrect This is the definition of CPTED, a standard approach to designing facilities to reduce crime.</p> <p>B Incorrect This is the definition of CPTED, a standard approach to designing facilities to reduce crime.</p> <p>C Correct This is the definition of CPTED, a standard approach to designing facilities to reduce crime.</p> <p>D Incorrect This is the definition of CPTED, a standard approach to designing facilities to reduce crime.</p>
Personnel 3.7 Security	55	Performing pre-employment screening and background checks is the responsibility of which function?	Executive Management	Human Resources	Cybersecurity	IT Audit	B	<p>A Incorrect HR is responsible for conducting employee checks, both before and during employment.</p> <p>B Correct HR is responsible for conducting employee checks, both before and during employment.</p> <p>C Incorrect HR is responsible for conducting employee checks, both before and during employment.</p> <p>D Incorrect HR is responsible for conducting employee checks, both before and during employment.</p>
Personnel 3.7 Security	56	Which are potential indicators of an insider threat that may harm the organization?	Excess access to corporate systems	Financial gains	Both A and B	Neither A nor B	C	<p>A Incorrect Both of these and more are ways to detect the potential an insider may threaten an organization.</p> <p>B Incorrect Both of these and more are ways to detect the potential an insider may threaten an organization.</p> <p>C Correct Both of these and more are ways to detect the potential an insider may threaten an organization.</p> <p>D Incorrect Both of these and more are ways to detect the potential an insider may threaten an organization.</p>

Computer Networking Fundament	3.8 als	57	This is not a layer in the OSI networking model:	Operating system.	Transport.	Network.	Physical.	A	<p>A Correct The OSI 7-Layer model is Application, Presentation, Session, Transport, Network, Data, and Physical.</p> <p>B Incorrect The OSI 7-Layer model is Application, Presentation, Session, Transport, Network, Data, and Physical.</p> <p>C Incorrect The OSI 7-Layer model is Application, Presentation, Session, Transport, Network, Data, and Physical.</p> <p>D Incorrect The OSI 7-Layer model is Application, Presentation, Session, Transport, Network, Data, and Physical.</p>
Computer Networking Fundament	3.8 als	58	This form of network address consists of four "octets" using numbers between 0 and 255:	MAC.	IPv4.	IPv6.	TCP Port number.	B	<p>A Incorrect The MAC address is a hexadecimal number assigned to a network interface card.</p> <p>B Correct IP version 4 uses four numbers from 0-255, with a period separating them.</p> <p>C Incorrect IP version 6 uses a 128-bit hexadecimal address.</p> <p>D Incorrect A TCP port is a number from 1-65,535 that's associated with a service.</p>
Network	3.9 Defenses	59	A core principle of a network firewall that any traffic that isn't explicitly permitted by a rule should be automatically denied is known as a(n):	Access Control List.	Default Deny Rule.	Explicit Access Rule.	Whitelisting.	B	<p>A Incorrect One of the core principles of a firewall, known as the default deny rule, is that any traffic that isn't explicitly permitted by a rule should be automatically denied.</p> <p>B Correct One of the core principles of a firewall, known as the default deny rule, is that any traffic that isn't explicitly permitted by a rule should be automatically denied.</p> <p>C Incorrect One of the core principles of a firewall, known as the default deny rule, is that any traffic that isn't explicitly permitted by a rule should be automatically denied.</p> <p>D Incorrect One of the core principles of a firewall, known as the default deny rule, is that any traffic that isn't explicitly permitted by a rule should be automatically denied.</p>
Network	3.9 Defenses	60	This type of network device has enhanced abilities to watch for attacks and make changes to your network security as they occur:	VPN Concentrators.	Unified Threat Management .	IDS/IPS.	Proxy Server.	C	<p>A Incorrect Intrusion Detection System or Intrusion Protection System, known as an IDS/IPS, is a network device that has enhanced abilities to watch for attacks and make changes to your security as they occur.</p> <p>B Incorrect Intrusion Detection System or Intrusion Protection System, known as an IDS/IPS, is a network device that has enhanced abilities to watch for attacks and make changes to your security as they occur.</p> <p>C Correct Intrusion Detection System or Intrusion Protection System, known as an IDS/IPS, is a network device that has enhanced abilities to watch for attacks and make changes to your security as they occur.</p> <p>D Incorrect Intrusion Detection System or Intrusion Protection System, known as an IDS/IPS, is a network device that has enhanced abilities to watch for attacks and make changes to your security as they occur.</p>
Network Security Access	3.1 Controls	61	A _____ is a widely used Internet record listing that identifies who owns a domain.	Firewall rule	IP address	Internet Identifying Record (IIR)	Whois	D	<p>A Incorrect The whois record lists the owner of internet domains assigned by official organizations such as ARIN and ICANN.</p> <p>B Incorrect The whois record lists the owner of internet domains assigned by official organizations such as ARIN and ICANN.</p> <p>C Incorrect The whois record lists the owner of internet domains assigned by official organizations such as ARIN and ICANN.</p> <p>D Correct The whois record lists the owner of internet domains assigned by official organizations such as ARIN and ICANN.</p>
Network Security Access	3.1 Controls	62	This common practice divides a network into zones based on business or security needs:	Segmentation.	Firewalling.	Virtual Private Network (VPN).	Co-location.	A	<p>A Correct Network segmentation separates the network into specific areas based on business needs; it can be logical, virtual, or physical.</p> <p>B Incorrect Network segmentation separates the network into specific areas based on business needs; it can be logical, virtual, or physical.</p>

Endpoint and System Security Configurati 3.11 on	63	This is a concept about using the minimal number of applications or services needed for the system to work. This is a common function of system hardening:	System simplification.	Separation of duties.	Least Functionality.	Least Authorization.	C	<p>C Incorrect Network segmentation separates the network into specific areas based on business needs; it can be logical, virtual, or physical.</p> <p>D Incorrect Network segmentation separates the network into specific areas based on business needs; it can be logical, virtual, or physical.</p> <p>A Incorrect Least functionality is running the minimal number of applications or services needed for the system to work.</p> <p>B Incorrect Least functionality is running the minimal number of applications or services needed for the system to work.</p> <p>C Correct Least functionality is running the minimal number of applications or services needed for the system to work.</p> <p>D Incorrect Least functionality is running the minimal number of applications or services needed for the system to work.</p>
Endpoint and System Security Configurati 3.11 on	64	This security capability sets the internal system policies on Microsoft Windows Operating Systems:	Security Policy Administration (SPA).	Local /Group Policies.	Windows Policy Administrator (WPA).	Windows Security Configuration Manager (WSCM).	B	<p>A Incorrect Local and group policies are the function of establishing and managing the specific security and functionality settings in a Windows environment.</p> <p>B Correct Local and group policies are the function of establishing and managing the specific security and functionality settings in a Windows environment.</p> <p>C Incorrect Local and group policies are the function of establishing and managing the specific security and functionality settings in a Windows environment.</p> <p>D Incorrect Local and group policies are the function of establishing and managing the specific security and functionality settings in a Windows environment.</p>
Endpoint and System Security 3.12 Protection	65	Which is not a typical detection method for antivirus programs?	User identification	Signature	Behavior	Heuristic	A	<p>A Correct Signatures, Behavior, and Heuristics are common methods for automating malware detection. User identification is not effective.</p> <p>B Incorrect Signatures, Behavior, and Heuristics are common methods for automating malware detection. User identification is not effective.</p> <p>C Incorrect Signatures, Behavior, and Heuristics are common methods for automating malware detection. User identification is not effective.</p> <p>D Incorrect Signatures, Behavior, and Heuristics are common methods for automating malware detection. User identification is not effective.</p>
Endpoint and System Security 3.12 Protection	66	What should set the rules for using removable media within an organization?	End-user decision	Corporate policy	IT administrators	Internal Audit	B	<p>A Incorrect Corporate policies should establish requirements and security controls for using any type of removable media (e.g., USB drives).</p> <p>B Correct Corporate policies should establish requirements and security controls for using any type of removable media (e.g., USB drives).</p> <p>C Incorrect Corporate policies should establish requirements and security controls for using any type of removable media (e.g., USB drives).</p> <p>D Incorrect Corporate policies should establish requirements and security controls for using any type of removable media (e.g., USB drives).</p>
Application 3.13 Security	67	Which programming language uses a runtime interpreter?	Java	.NET	Python	C++	D	<p>A Incorrect The C languages (C, C#, C++) all use a compiler to create executable code. An interpreter executes code when it is run.</p>

Application Security	68	What's the project that provides standards and directions on secure development/coding techniques?	NIST CSRC	OWASP	Software Assurance Maturity Model	Software Technical Implementation Guide B	<p>B Incorrect The C languages (C, C#, C++) all use a compiler to create executable code. An interpreter executes code when it is run.</p> <p>C Incorrect The C languages (C, C#, C++) all use a compiler to create executable code. An interpreter executes code when it is run.</p> <p>D Correct The C languages (C, C#, C++) all use a compiler to create executable code. An interpreter executes code when it is run.</p>
Cloud and Virtualization Security	69	_____ is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.	Virtualization	Server Farms	Cloud Computing	Co-location Data Centers C	<p>A Incorrect This is the NIST definition of Cloud Computing.</p> <p>B Incorrect This is the NIST definition of Cloud Computing.</p> <p>C Correct This is the NIST definition of Cloud Computing.</p> <p>D Incorrect This is the NIST definition of Cloud Computing.</p>
Cloud and Virtualization Security	70	What is the underlying technology that creates and runs virtual machines?	Hypervisor	Virtual Machine Manager (VMM)	Virtual Desktop Infrastructure (VDI)	Cloud Access Security Broker (CASB) A	<p>A Correct A hypervisor is used with virtualization to manage and run virtual machines and operating systems.</p> <p>B Incorrect A hypervisor is used with virtualization to manage and run virtual machines and operating systems.</p> <p>C Incorrect A hypervisor is used with virtualization to manage and run virtual machines and operating systems.</p> <p>D Incorrect A hypervisor is used with virtualization to manage and run virtual machines and operating systems.</p>
Encryption Concepts	71	What term is a process or set of rules to be followed in calculations or other problem-solving operations and doesn't need to be kept secret?	Encryption Key	Algorithm	Steganography	Encoding B	<p>A Incorrect This is the secret value used with an algorithm to encrypt and decrypt messages.</p> <p>B Correct This is the definition of an algorithm.</p> <p>C Incorrect Steganography is "hidden writing," hiding messages in other media.</p> <p>D Incorrect Encoding transforms human text into machine text.</p>
Encryption Concepts	72	This is the act of making something difficult to understand and should rely on something not known or widely discovered:	Encryption.	Steganography.	Obfuscation.	Data hiding. C	<p>A Incorrect This is the definition of obfuscation.</p> <p>B Incorrect This is the definition of obfuscation.</p> <p>C Correct This is the definition of obfuscation.</p> <p>D Incorrect This is the definition of obfuscation.</p>
Cryptographic Algorithms	73	In cybersecurity, this is the most common symmetric encryption algorithm today and is a NIST Standard:	Advanced Encryption Standard (AES).	Data Encryption Standard (DES).	Public Key Infrastructure (PKI).	Multi-factor authentication. A	<p>A Correct AES is the symmetric encryption standard.</p> <p>B Incorrect DES is an old NIST encryption standard.</p> <p>C Incorrect This uses asymmetric encryption for managing keys.</p> <p>D Incorrect This is a form of authentication, not cryptography.</p>
Cryptographic Algorithms	74	What are the types of keys used for asymmetric encryption?	Symmetric key pairs	Keychains	Digital signatures	Public/Private Keys D	<p>A Incorrect Symmetric encryption uses a single key to encrypt and decrypt.</p> <p>B Incorrect A keychain holds public keys as a part of PKI.</p> <p>C Incorrect A digital signature contains a subject's encrypted private key to prove identity.</p> <p>D Correct Asymmetric encryption uses public/private keys.</p>

Encryption - Public Key Infrastructure	4.3 re	75	This standard is the process of creating, managing, distributing, storing, using, and revoking keys and digital certificates:	Advanced Encryption Standard (AES).	Public Key Infrastructure (PKI).	Digital Key Management System (DKMS).	Key escrow.	B	<p>A Incorrect AES is the NIST symmetric encryption standard. PKI is a set of roles, policies, and procedures needed to manage public-key (asymmetric) encryption.</p> <p>B Correct</p> <p>C Incorrect This is a fabricated term.</p> <p>D Incorrect Key escrow is a form of having a backup or backdoor encryption key.</p>
Encryption - Public Key Infrastructure	4.3 re	76	In PKI, this entity issues digital certificates ensuring the certificate holder's identity:	Certificate Manager (CM).	Certificate Authority (CA).	Registration Authority (RA).	Key Registrar.	B	<p>A Incorrect This is a fabricated term.</p> <p>B Correct The CA verifies the owner/holder of a certificate.</p> <p>C Incorrect The RA validates the user's or endpoint's identity.</p> <p>D Incorrect This is a fabricated term.</p>
Data Protection	4.4 Techniques	77	This process takes a string of any length and produces a fixed-length string for output:	Asymmetric encryption.	Symmetric encryption.	Obfuscation.	Hashing.	D	<p>A Incorrect This is the definition of hashing.</p> <p>B Incorrect This is the definition of hashing.</p> <p>C Incorrect This is the definition of hashing.</p> <p>D Correct This is the definition of hashing.</p>
Data Protection	4.4 Techniques	78	You can use this control for notification if files have changed within a system:	File Integrity Management (FIM).	Asymmetric encryption.	Certificate Authority (CA).	Public Key Infrastructure (PKI).	A	<p>A Correct FIM uses hashing to ensure the integrity of files.</p> <p>B Incorrect FIM uses hashing to ensure the integrity of files.</p> <p>C Incorrect FIM uses hashing to ensure the integrity of files.</p> <p>D Incorrect FIM uses hashing to ensure the integrity of files.</p>
Data Privacy	4.5 Controls	79	This is a voluntary tool used by organizations to create or improve privacy programs:	NIST Cybersecurity Framework.	NIST Privacy Framework.	ISO/IEC 27001.	General Data Protection Regulation (GDPR).	B	<p>A Incorrect This is a cybersecurity, not a privacy, framework.</p> <p>B Correct The NIST Privacy Framework is a guideline to help organizations manage privacy programs.</p> <p>C Incorrect This is an international information security standard.</p> <p>D Incorrect This is the EU's privacy law.</p>
Data Privacy	4.5 Controls	80	A _____ is a decision tool to identify, document, manage, and mitigate privacy risks.	Privacy Impact Assessment (PIA)	Business Impact Assessment (BIA)	Vulnerability Assessment	Privacy Risk Management (PRM)	A	<p>A Correct A PIA is used to evaluate privacy risks.</p> <p>B Incorrect A BIA manages business impact risks.</p> <p>C Incorrect This assesses system vulnerabilities.</p> <p>D Incorrect This is a fabricated term.</p>
Logging, Monitoring and	5.1 Alerting	81	Logging and monitoring is part of which NIST Cybersecurity Framework category?	Identification	Protection	Detection	Response	C	<p>A Incorrect Detection (event capture) is the third category in the NIST CSF.</p> <p>B Incorrect Detection (event capture) is the third category in the NIST CSF.</p> <p>C Correct Detection (event capture) is the third category in the NIST CSF.</p> <p>D Incorrect Detection (event capture) is the third category in the NIST CSF.</p>
Logging, Monitoring and	5.1 Alerting	82	This type of security device provides centralized log management allowing for log integrity, correlation, and backup:	Virtualized logging.	Unified Threat Management (UTM).	Information Security Continuous Monitoring (ISCM).	Security Incident and Event Management (SIEM).	D	<p>A Incorrect A SIEM is a centralized system or service that provides real-time analysis of security alerts generated by applications and network hardware.</p> <p>B Incorrect A SIEM is a centralized system or service that provides real-time analysis of security alerts generated by applications and network hardware.</p> <p>C Incorrect A SIEM is a centralized system or service that provides real-time analysis of security alerts generated by applications and network hardware.</p> <p>D Correct A SIEM is a centralized system or service that provides real-time analysis of security alerts generated by applications and network hardware.</p>

Incident Response (IR) 5.2 Planning	83	Which of the following is not one of the four high-level steps listed in the NIST Publication on Incident Response (SP800-61)?	Preparation	Notify affected parties	Detection & Analysis	Post-incident activity	B	<p>A Incorrect This is included in the Containment, Eradication, and Recovery step.</p> <p>B Correct This is not included in the Containment, Eradication, and Recovery step.</p> <p>C Incorrect This is included in the Containment, Eradication, and Recovery step.</p> <p>D Incorrect This is included in the Containment, Eradication, and Recovery step.</p>
Incident Response (IR) 5.2 Planning	84	A violation or imminent threat of violation of computer security policies, acceptable use policies, or standard security practices is known as a:	Computer Security Incident.	Risk Event.	Penetration Test.	Hacking Incident.	A	<p>A Computer security incident is a violation or imminent threat of violation of computer security policies, acceptable use policies, or standard security practices.</p> <p>A Correct</p> <p>B Incorrect A computer security incident is a violation or imminent threat of violation of computer security policies, acceptable use policies, or standard security practices.</p> <p>C Incorrect A computer security incident is a violation or imminent threat of violation of computer security policies, acceptable use policies, or standard security practices.</p> <p>D Incorrect A computer security incident is a violation or imminent threat of violation of computer security policies, acceptable use policies, or standard security practices.</p>
Incident Response (IR) Testing 5.3 (IR) Testing	85	Which is a typical way to test an organization's Incident Response Plan (IRP)?	Tabletop exercise	Penetration Test	Vulnerability Assessment	Disaster Recovery failover	A	<p>A Incident response testing includes, for example, the use of checklists, walk-through or tabletop exercises, simulations, and comprehensive real-life exercises.</p> <p>A Correct</p> <p>B Incorrect Incident response testing includes, for example, the use of checklists, walk-through or tabletop exercises, simulations, and comprehensive real-life exercises.</p> <p>C Incorrect Incident response testing includes, for example, the use of checklists, walk-through or tabletop exercises, simulations, and comprehensive real-life exercises.</p> <p>D Incorrect Incident response testing includes, for example, the use of checklists, walk-through or tabletop exercises, simulations, and comprehensive real-life exercises.</p>
Incident Response (IR) Testing 5.3 (IR) Testing	86	Who is typically not included in incident response testing and training?	Internal users	Systems administrators	Incident response team	External end-users	D	<p>A External end-users are generally not included in IR testing and training.</p> <p>B External end-users are generally not included in IR testing and training.</p> <p>C External end-users are generally not included in IR testing and training.</p> <p>D Correct External end-users are generally not included in IR testing and training.</p>
Digital Forensics 5.4 Forensics	87	This function's purpose is to recover data from computers used as evidence during criminal, civil, or intellectual property investigations:	Incident Response.	Disaster Recovery.	Digital Forensics.	Cybersecurity.	C	<p>A Digital forensics is a part of Incident Response and is the technical capability to recover and investigate materials found on digital devices.</p> <p>B Digital forensics is a part of Incident Response and is the technical capability to recover and investigate materials found on digital devices.</p> <p>C Correct Digital forensics is a part of Incident Response and is the technical capability to recover and investigate materials found on digital devices.</p> <p>D Digital forensics is a part of Incident Response and is the technical capability to recover and investigate materials found on digital devices.</p>
Digital Forensics 5.4 Forensics	88	Use this when securing evidence to detail who is involved and how and when it was obtained:	Faraday bag.	Forensics toolkit.	A Chain of Evidence custody form.	Incident Response Plan.	C	<p>A A Faraday bag is used to ensure any digital evidence is protected from electronic emissions.</p> <p>B Forensic examiners may use a toolkit as part of their investigation, but it may not document who is involved and the evidence obtained.</p> <p>C Correct When securing evidence, use a Chain of Evidence custody form to detail who is involved and how and when it was obtained.</p>

Recovering 5.5 Systems	89	This document is designed to ensure that an organization can recover from a potentially destructive incident and resume operations as quickly as possible following that event:	Incident Response Plan (IRP).	Risk Management Plan (RMP).	Continuity of Operations Plan (COOP).	Business Resumption Plan (BRP).	C	D Incorrect	Your incident response plan is your procedure for conducting a security investigation.
								A Incorrect	The COOP is a fundamental part of a system and business recovery.
								B Incorrect	The COOP is a fundamental part of a system and business recovery.
								C Correct	The COOP is a fundamental part of a system and business recovery.
								D Incorrect	The COOP is a fundamental part of a system and business recovery.
Recovering 5.5 Systems	90	The organization's order of restoration should be based on a(n):	Business Impact Assessment (BIA).	Order of Restoration Plan (ORP).	Server Risk Assessment (SRA).	Service Level Agreement (SLA).	A	A Correct	Your BIA should establish what systems and services are recovered in a specific order based on business needs.
								B Incorrect	Your BIA should establish what systems and services are recovered in a specific order based on business needs.
								C Incorrect	Your BIA should establish what systems and services are recovered in a specific order based on business needs.
								D Incorrect	Your BIA should establish what systems and services are recovered in a specific order based on business needs.
Business Continuity and 5.6 recovery	91	Which of the following is not a step in the development of a business continuity plan according to the Ready.gov website?	Business impact analysis (BIA)	Failover Site Determination	Recovery Strategies	Testing & Exercises	B	A Incorrect	Failover Site Determination may be conducted in the Recovery Strategy step based on the business needed.
								B Correct	Failover Site Determination may be conducted in the Recovery Strategy step based on the business needed.
								C Incorrect	Failover Site Determination may be conducted in the Recovery Strategy step based on the business needed.
								D Incorrect	Failover Site Determination may be conducted in the Recovery Strategy step based on the business needed.
Business Continuity and 5.6 recovery	92	Which of the following should be included in an organization's Business Continuity Plan?	Recovery objectives	Roles and responsibilities	Both A and B	Neither A nor B	C	A Incorrect	Recovery objectives and roles and responsibilities should be included in a standard BCP.
								B Incorrect	Recovery objectives and roles and responsibilities should be included in a standard BCP.
								C Correct	Recovery objectives and roles and responsibilities should be included in a standard BCP.
								D Incorrect	Recovery objectives and roles and responsibilities should be included in a standard BCP.
The Auditor's 6.1 Role	93	This is a practice of having more than one person required to complete a task and is used to prevent fraud and error:	Segregation of Duties.	Least Privilege.	Single Sign-On.	Independence.	A	A Correct	The principle of SOD is based on shared responsibilities of a key process that disperses the critical functions of that process to more than one person or department.
								B Incorrect	The principle of SOD is based on shared responsibilities of a key process that disperses the critical functions of that process to more than one person or department.
								C Incorrect	The principle of SOD is based on shared responsibilities of a key process that disperses the critical functions of that process to more than one person or department.
								D Incorrect	The principle of SOD is based on shared responsibilities of a key process that disperses the critical functions of that process to more than one person or department.
6.2 CISO's Role	94	This corporate executive creates the strategic information security plan and manages organization-wide system and data protection initiatives:	IT Audit Director.	Chief Information Security Officer (CISO).	Chief Financial Officer.	Chief Information Officer.	B	A Incorrect	The CISO is responsible for both the strategic direction and the operational aspects of an organization's information security program.
								B Correct	The CISO is responsible for both the strategic direction and the operational aspects of an organization's information security program.
								C Incorrect	The CISO is responsible for both the strategic direction and the operational aspects of an organization's information security program.

Establishing 6.3 Audit Scope	95	Which of the following is a typical method for limiting the scope of a cybersecurity audit?	Multi-factor authentication	Centralizing management functions	Network separation/segmentation	All of the above	C	<p>D Incorrect The CISO is responsible for both the strategic direction and the operational aspects of an organization's information security program.</p> <p>A Incorrect Separating systems/servers on their own network segment limits the audit to just that area.</p> <p>B Incorrect Separating systems/servers on their own network segment limits the audit to just that area.</p> <p>C Correct Separating systems/servers on their own network segment limits the audit to just that area.</p> <p>D Incorrect Separating systems/servers on their own network segment limits the audit to just that area.</p>
Building the 6.4 Audit Plan	96	Which step is not typically part of planning a cybersecurity audit?	Gain management support	Establish the audit timeline	Gather information	Implement cybersecurity controls	D	<p>A Incorrect Implementing controls is outside of planning a cybersecurity audit.</p> <p>B Incorrect Implementing controls is outside of planning a cybersecurity audit.</p> <p>C Incorrect Implementing controls is outside of planning a cybersecurity audit.</p> <p>D Correct Implementing controls is outside of planning a cybersecurity audit.</p>
Cybersecurity Evaluation 6.5 Methods	97	Which of the following is not an assessment method as stated in NIST SP 800-53A?	Scan	Interview	Examine	Test	A	<p>A Correct NIST lists three types of standard assessment methods: Interview, Examine, and Test. A scan is a type of testing.</p> <p>B Incorrect NIST lists three types of standard assessment methods: Interview, Examine, and Test. A scan is a type of testing.</p> <p>C Incorrect NIST lists three types of standard assessment methods: Interview, Examine, and Test. A scan is a type of testing.</p> <p>D Incorrect NIST lists three types of standard assessment methods: Interview, Examine, and Test. A scan is a type of testing.</p>
Vulnerability Assessments, Scanning, 6.6 and Testing	98	This application is used to scan networks for IP addresses and open ports or services:	Microsoft Defender.	OWASP ZAP.	Nmap.	Wireshark.	C	<p>A Incorrect Nmap is a tool for scanning networks for open IPs and ports. Zenmap is the GUI front-end.</p> <p>B Incorrect Nmap is a tool for scanning networks for open IPs and ports. Zenmap is the GUI front-end.</p> <p>C Correct Nmap is a tool for scanning networks for open IPs and ports. Zenmap is the GUI front-end.</p> <p>D Incorrect Nmap is a tool for scanning networks for open IPs and ports. Zenmap is the GUI front-end.</p>
Vulnerability Assessments, Scanning, 6.6 and Testing	99	According to the Payment Card Industry (PCI), how often do scans need to be conducted for a cardholder data environment?	Continually	Quarterly	Annually	As determined by management	B	<p>A Incorrect Quarterly Scans are required in accordance with PCI DSS Requirement 11.2.</p> <p>B Correct Quarterly Scans are required in accordance with PCI DSS Requirement 11.2.</p> <p>C Incorrect Quarterly Scans are required in accordance with PCI DSS Requirement 11.2.</p> <p>D Incorrect Quarterly Scans are required in accordance with PCI DSS Requirement 11.2.</p>
Penetration 6.7 testing	100	This is a live test of the effectiveness of security defenses through mimicking the actions of real-life attackers:	Vulnerability Assessment.	Penetration (Pen) Test.	Red Team Exercise.	Threat Modeling.	B	<p>A Incorrect This is the ISACA definition of a Penetration Test.</p> <p>B Correct This is the ISACA definition of a Penetration Test.</p> <p>C Incorrect This is the ISACA definition of a Penetration Test.</p> <p>D Incorrect This is the ISACA definition of a Penetration Test.</p>
Penetration 6.7 testing	101	Reconnaissance is a part of which phase of penetration testing?	Planning	Discovery	Access	Attack	B	<p>A Incorrect Reconnaissance is a step in the discovery phase.</p>

Security Maturity Models (Capability Maturity Model 6.8 [CMM])

102 This is the Capability Maturity Model (CMM) level, where processes are documented, and the organization is usually reactive:
 Level 1 - Initial. **Level 2 - Repeatable.** Level 3 - Defined. Level 4 - Quantitatively Managed. B

- B Correct Reconnaissance is a step in the discovery phase.
- C Incorrect Reconnaissance is a step in the discovery phase.
- D Incorrect Reconnaissance is a step in the discovery phase.

A Incorrect Level 2, Repeatable, is characteristic of this level of maturity that some processes are repeatable, possibly with consistent results. Process discipline is unlikely to be rigorous.

B Correct Level 2, Repeatable, is characteristic of this level of maturity that some processes are repeatable, possibly with consistent results. Process discipline is unlikely to be rigorous.

C Incorrect Level 2, Repeatable, is characteristic of this level of maturity that some processes are repeatable, possibly with consistent results. Process discipline is unlikely to be rigorous.

D Incorrect Level 2, Repeatable, is characteristic of this level of maturity that some processes are repeatable, possibly with consistent results. Process discipline is unlikely to be rigorous.

Audit Using NIST Framework 6.9 s

103 Which of the following is not a goal of the NIST Cybersecurity Framework?
 Consistent and cost-effective application of security controls Repeatable processes **Standard operating instructions for all organizations** A technology-neutral and flexible approach C

A Incorrect NIST focuses on strategic directions and processes rather than industry or area-specific operations.

B Incorrect NIST focuses on strategic directions and processes rather than industry or area-specific operations.

C Correct NIST focuses on strategic directions and processes rather than industry or area-specific operations.

D Incorrect NIST focuses on strategic directions and processes rather than industry or area-specific operations.

Audit With Other Security Frameworks and Standards 6.1 (ISO)

104 This reference provides 20 control areas separated into basic, foundational, and organizational functions:
 ISO/IEC 27001:2013. **Center for Internet Security (CIS) Controls.** NIST CSF. PCI DSS. B

A Incorrect The CIS Controls provides an implementation path for establishing a cybersecurity program.

B Correct The CIS Controls provides an implementation path for establishing a cybersecurity program.

C Incorrect The CIS Controls provides an implementation path for establishing a cybersecurity program.

D Incorrect The CIS Controls provides an implementation path for establishing a cybersecurity program.

Auditing 6.11 PCI DSS

105 This is comprised of people, processes, and technology that store, process, or transmit credit/debit card data or sensitive authentication data:
 Data Flow Diagram (DFD). Virtualized Data Environment (VDE). **Cardholder Data Environment (CDE).** Credit Card Database (CCDB). C

A Incorrect This is the PCI definition for a CDE.

B Incorrect This is the PCI definition for a CDE.

C Correct This is the PCI definition for a CDE.

D Incorrect This is the PCI definition for a CDE.

Auditing 6.11 PCI DSS

106 A _____ is the final report for a PCI Assessment/Audit.
Report on Compliance (RoC) Compliance Standardization Report Self-Assessment Questionnaire (SAQ) PCI Assessment Report (PAR) A

A Correct The Report on Compliance (RoC) is the official report demonstrating compliance with DSS.

B Incorrect The Report on Compliance (RoC) is the official report demonstrating compliance with DSS.

C Incorrect The Report on Compliance (RoC) is the official report demonstrating compliance with DSS.

D Incorrect The Report on Compliance (RoC) is the official report demonstrating compliance with DSS.

Collecting and Organizing Cybersecurity Evidence 7.1

107 A _____ is a document used as a risk management tool and to fulfill regulatory compliance acting as a repository for identified risks and including additional information about each one.
 Business Impact Assessment (BIA) **Risk Register** Vulnerability Scanner Audit log B

A Incorrect A risk register is a tool for documenting risks and can be used for collecting cybersecurity audit evidence.

NIST Reporting Requirement 7.2 nts

The _____ is the corrective action plan (document or tool) for tracking and planning the resolution of the weaknesses.

Business Impact Assessment (BIA)

System Security Plan (SSP)

Risk Compliance Report (RCR)

Plan of Action and Milestones (POAM)

D

B Correct A risk register is a tool for documenting risks and can be used for collecting cybersecurity audit evidence.

C Incorrect A risk register is a tool for documenting risks and can be used for collecting cybersecurity audit evidence.

D Incorrect A risk register is a tool for documenting risks and can be used for collecting cybersecurity audit evidence.

A Incorrect The POAM is a document that identifies tasks needing to be accomplished. It details resources required to accomplish the elements of the plan, any milestones in meeting the tasks, and scheduled completion dates for the milestones.

B Incorrect The POAM is a document that identifies tasks needing to be accomplished. It details resources required to accomplish the elements of the plan, any milestones in meeting the tasks, and scheduled completion dates for the milestones.

C Incorrect The POAM is a document that identifies tasks needing to be accomplished. It details resources required to accomplish the elements of the plan, any milestones in meeting the tasks, and scheduled completion dates for the milestones.

D Correct The POAM is a document that identifies tasks needing to be accomplished. It details resources required to accomplish the elements of the plan, any milestones in meeting the tasks, and scheduled completion dates for the milestones.

Prioritizing Risks and Influencing Decisions 7.3

In the NIST Risk Management Framework (RMF), this role makes the final risk decisions before a system is allowed in production:

IT Audit Directory.

Chief Information Security Officer (CISO)

Authorizing Official (AO)

Chief Risk Officer (CRO)

C

A Incorrect According to NIST, the AO is a senior official or executive with the authority to formally assume responsibility for operating an information system at an acceptable level of risk to organizational operations.

B Incorrect According to NIST, the AO is a senior official or executive with the authority to formally assume responsibility for operating an information system at an acceptable level of risk to organizational operations.

C Correct According to NIST, the AO is a senior official or executive with the authority to formally assume responsibility for operating an information system at an acceptable level of risk to organizational operations.

D Incorrect According to NIST, the AO is a senior official or executive with the authority to formally assume responsibility for operating an information system at an acceptable level of risk to organizational operations.