CAS-005 Training Kit | CAS-005 Valid Exam Topics

DON BOSCO INSTITUTE OF TECHNOLOGY
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Department of Information Science & Engineering

Question Bank

Subject: Artificial Intelligence   Subject Code: BCS515B

Module 1

1. What is Artificial Intelligence (AI). Explain four approaches of AI in detail with example

2. Define an agent and explain how it interacts with the environment using the example of the vacuum cleaner world.

3. Explain the following
   I. Concept of Rationality
   II. Omniscience
   III. Learning
   IV. Autonomy

4. Explain PEAS task environment with example

5. Explain any 4 properties of task environments with example.

6. With a neat diagram explain 4 different types of agents.

7. Explain the following
   I. Simple Reflex Agents
   II. Model – Based Reflex Agents
   III. Goal – Based Agents
   IV. Utility – Based Agents

8. Explain the following
   I. Agent Program
   II. Agent function
   III. Intelligent Agent
   IV. Percept
   V. Percept Sequence

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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	• Security Engineering: This section measures the skills of CompTIA security architects that involve troubleshooting common issues related to identity and access management (IAM) components within an enterprise environment. Candidates will analyze requirements to enhance endpoint and server security while implementing hardware security technologies. This domain also emphasizes the importance of advanced cryptographic concepts in securing systems.

Topic 2	• Governance, Risk, and Compliance: This section of the exam measures the skills of CompTIA security architects that cover the implementation of governance components based on organizational security requirements, including developing policies, procedures, and standards. Candidates will learn about managing security programs, including awareness training on phishing and social engineering.
Topic 3	• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.
Topic 4	• Security Operations: This domain is designed for CompTIA security architects and covers analyzing data to support monitoring and response activities, as well as assessing vulnerabilities and recommending solutions to reduce attack surfaces. Candidates will apply threat-hunting techniques and utilize threat intelligence concepts to enhance operational security.

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CompTIA SecurityX Certification Exam Sample Questions (Q259-Q264):

NEW QUESTION # 259
A manufacturing plant is updating its IT services. During discussions, the senior management team created the following list of considerations:
* Staff turnover is high and seasonal.
* Extreme conditions often damage endpoints.
* Losses from downtime must be minimized.
* Regulatory data retention requirements exist.
Which of the following best addresses the considerations?

- A. Using a non-persistent virtual desktop interface with thin clients
- B. Deploying redundant file servers and configuring database journaling
- C. Establishing further environmental controls to limit equipment damage
- D. Maintaining an inventory of spare endpoints for rapid deployment

Answer: A

Explanation:
The best solution is to use a non-persistent virtual desktop infrastructure (VDI) with thin clients (B). Thin clients are inexpensive, easy to replace, and resilient in harsh environments where traditional endpoints may be damaged. With non-persistent VDI, employee desktops are virtualized and reset to a clean state after logout, reducing risks from turnover, malware persistence, or user misconfiguration. Centralized management ensures consistent patching and security updates while minimizing downtime, since damaged thin clients can be swapped quickly with minimal disruption.
Option A (environmental controls) may reduce equipment damage but does not address turnover or regulatory retention requirements. Option C (redundant servers and journaling) improves data integrity but does not solve endpoint-related risks or staffing issues. Option D (maintaining spare endpoints) mitigates hardware failures but still relies on managing and configuring full systems, which is inefficient for high-turnover environments.
CAS-005 emphasizes virtualization and centralization strategies in environments where operational resilience, rapid recovery, and compliance are critical. Non-persistent VDI with thin clients provides the most comprehensive solution here.

NEW QUESTION # 260

A company migrating to a remote work model requires that company-owned devices connect to a VPN before logging in to the device itself. The VPN gateway requires that a specific key extension is deployed to the machine certificates in the internal PKI. Which of the following best explains this requirement?

- A. The internal PKI certificate deployment allows for Wi-Fi connectivity before logging in to other systems.
- B. The certificate is an additional factor to meet regulatory MFA requirements for VPN access.
- C. The VPN client selected the certificate with the correct key usage without user interaction.
- D. The server connection uses SSL VPN, which uses certificates for secure communication.

Answer: C

Explanation:
Comprehensive and Detailed Explanation:
This scenario describes an enterprise VPN setup that requires machine authentication before a user logs in. The best explanation for this requirement is that the VPN client selects the appropriate certificate automatically based on the key extension in the machine certificate.
* Understanding the Key Extension Requirement:
* PKI (Public Key Infrastructure) issues machine certificates that include specific key usages such as Client Authentication or IPSec IKE Intermediate.
* Key usage extensions define how a certificate can be used, ensuring that only valid certificates are selected by the VPN client.
* Why Option B is Correct:
* The VPN automatically selects the correct machine certificate with the appropriate key extension.
* The process occurs without user intervention, ensuring seamless VPN authentication before login.
* Why Other Options Are Incorrect:
* A (MFA requirement): Certificates used in this scenario are for machine authentication, not user MFA. MFA typically involves user credentials plus a second factor (like OTPs or biometrics), which is not applicable here.
* C (Wi-Fi connectivity before login): This refers to pre-logon networking, which is a separate concept where devices authenticate to a Wi-Fi network before login, usually via 802.1X EAP- TLS. However, this question specifically mentions VPN authentication, not Wi-Fi authentication.
* D (SSL VPN with certificates): While SSL VPNs do use certificates, this scenario involves machine certificates issued by an internal PKI, which are commonly used in IPSec VPNs, not SSL VPNs.

NEW QUESTION # 261

Which of the following is the main reason quantum computing advancements are leading companies and countries to deploy new encryption algorithms?

- A. Encryption systems based on large prime numbers will be vulnerable to exploitation
- B. Zero Trust security architectures will require homomorphic encryption.
- C. Perfect forward secrecy will prevent deployment of advanced firewall monitoring techniques
- D. Quantum computers will enable malicious actors to capture IP traffic in real time

Answer: A

Explanation:
Advancements in quantum computing pose a significant threat to current encryption systems, especially those based on the difficulty of factoring large prime numbers, such as RSA. Quantum computers have the potential to solve these problems exponentially faster than classical computers, making current cryptographic systems vulnerable.
Why Large Prime Numbers are Vulnerable:
Shor's Algorithm: Quantum computers can use Shor's algorithm to factorize large integers efficiently, which undermines the security of RSA encryption.
Cryptographic Breakthrough: The ability to quickly factor large prime numbers means that encrypted data, which relies on the hardness of this mathematical problem, can be decrypted.
Other options, while relevant, do not capture the primary reason for the shift towards new encryption algorithms:
B: Zero Trust security architectures: While important, the shift to homomorphic encryption is not the main driver for new encryption algorithms.
C: Perfect forward secrecy: It enhances security but is not the main reason for new encryption algorithms.
D: Real-time IP traffic capture: Quantum computers pose a more significant threat to the underlying cryptographic algorithms than to the real-time capture of traffic.

NEW QUESTION # 262

An organization is required to
* Respond to internal and external inquiries in a timely manner
* Provide transparency.
* Comply with regulatory requirements

The organization has not experienced any reportable breaches but wants to be prepared if a breach occurs in the future. Which of the following is the best way for the organization to prepare?

- A. Outsourcing the handling of necessary regulatory filing to an external consultant
- B. Integrating automated response mechanisms into the data subject access request process
- C. Conducting lessons-learned activities and integrating observations into the crisis management plan
- D. Developing communication templates that have been vetted by internal and external counsel

Answer: D

Explanation:

Preparing communication templates that have been vetted by both internal and external counsel ensures that the organization can respond quickly and effectively to internal and external inquiries, comply with regulatory requirements, and provide transparency in the event of a breach.

Why Communication Templates?

Timely Response: Pre-prepared templates ensure that responses are ready to be deployed quickly, reducing response time.

Regulatory Compliance: Templates vetted by counsel ensure that all communications meet legal and regulatory requirements.

Consistent Messaging: Ensures that all responses are consistent, clear, and accurate, maintaining the organization's credibility.

Crisis Management: Pre-prepared templates are a critical component of a broader crisis management plan, ensuring that all stakeholders are informed appropriately.

Other options, while useful, do not provide the same level of preparedness and compliance:

A: Outsourcing to an external consultant: This may delay response times and lose internal control over the communication.

B: Integrating automated response mechanisms: Useful for efficiency but not for ensuring compliant and vetted responses.

D: Conducting lessons-learned activities: Important for improving processes but does not provide immediate preparedness for communication.

References:

CompTIA SecurityX Study Guide

NIST Special Publication 800-61 Revision 2, "Computer Security Incident Handling Guide" ISO/IEC 27002:2013, "Information technology - Security techniques - Code of practice for information security controls"

NEW QUESTION # 263

A company experienced a data breach, resulting in the disclosure of extremely sensitive data regarding a merger. As a regulated entity, the company must comply with reporting and disclosure requirements. The company is concerned about its public image and shareholder values. Which of the following best supports the organization in addressing its concerns?

- A. Supply chain management program
- B. Crisis management plan
- C. Business impact analysis
- D. Data subject access request

Answer: B

Explanation:

A crisis management plan defines coordinated communication and response strategies for high-profile incidents that may harm an organization's public reputation and shareholder confidence. CAS-005 GRC content includes crisis communication planning for regulatory compliance and public relations in the wake of breaches.

A Data Subject Access Request (A) addresses individual data rights, not overall crisis handling.

Business Impact Analysis (B) helps assess potential operational and financial impacts but does not manage public perception during an incident.

NEW QUESTION # 264

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