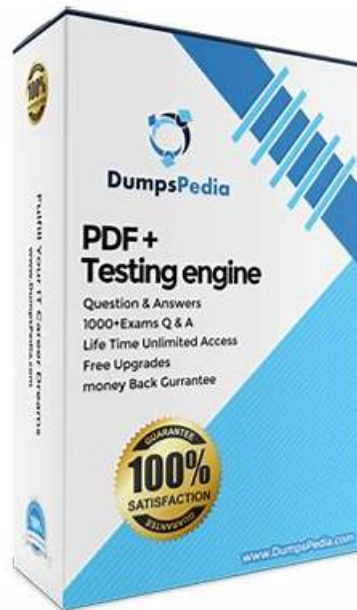


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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• AIMS and Privacy Standards: ISO 42001 and ISO 27563: This section of the exam measures skills of the AI Security Analyst and addresses international standards related to AI management systems and privacy. It reviews compliance expectations, data governance frameworks, and how these standards help align AI implementation with global privacy and security regulations.
Topic 2	<ul style="list-style-type: none">• Securing AI Models and Data: This section of the exam measures skills of the Cybersecurity Risk Manager and focuses on the protection of AI models and the data they consume or generate. Topics include adversarial attacks, data poisoning, model theft, and encryption techniques that help secure the AI lifecycle.
Topic 3	<ul style="list-style-type: none">• Evolution of Gen AI and Its Impact: This section of the exam measures skills of the AI Security Analyst and covers how generative AI has evolved over time and the implications of this evolution for cybersecurity. It focuses on understanding the broader impact of Gen AI technologies on security operations, threat landscapes, and risk management strategies.

SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q24-Q29):

NEW QUESTION # 24

A company developing AI-driven medical diagnostic tools is expanding into the European market. To ensure compliance with local regulations, what should be the company's primary focus in adhering to the EU AI Act?

- **A. Implementing measures to prevent any harmful outcomes and ensure AI system safety**
- B. Ensuring the AI system meets stringent privacy standards to protect sensitive data
- C. Focusing on integrating ethical guidelines to ensure AI decisions are fair and unbiased.
- D. Prioritizing transparency and accountability in AI systems to avoid high-risk categorization

Answer: A

Explanation:

The EU AI Act classifies AI systems by risk, with medical diagnostics as high-risk, requiring stringent safety measures to prevent harm, such as misdiagnoses. Compliance prioritizes robust testing, validation, and monitoring to ensure safe outcomes, aligning with ISO 42001's risk management framework. While ethics and privacy are critical, safety is the primary focus to meet regulatory thresholds and protect users. Exact extract: "The EU AI Act emphasizes implementing measures to prevent harmful outcomes and ensure AI system safety, particularly for high-risk applications like medical diagnostics." (Reference: Cyber Security for AI by SISA Study Guide, Section on EU AI Act Compliance, Page 175-178).

NEW QUESTION # 25

What role does GenAI play in automating vulnerability scanning and remediation processes?

- **A. By generating code patches and suggesting fixes based on vulnerability descriptions.**
- B. By compiling lists of vulnerabilities without any analysis.
- C. By increasing the frequency of manual scans to ensure thoroughness.
- D. By ignoring low-priority vulnerabilities to focus on high-impact ones.

Answer: A

Explanation:

GenAI automates vulnerability management by analyzing scan results and generating tailored code patches or remediation strategies, accelerating the fix process and reducing human error. Using natural language processing, it interprets vulnerability reports, cross-references with known exploits, and proposes secure code alternatives, integrating seamlessly into DevSecOps pipelines. This proactive approach minimizes exposure windows and enhances system resilience against exploits. For instance, in cloud environments, GenAI can simulate patch impacts before application. This contributes to a stronger security posture by enabling rapid, accurate responses to threats. Exact extract: "GenAI automates vulnerability scanning and remediation by generating code patches and fixes, improving efficiency and security posture." (Reference: Cyber Security for AI by SISA Study Guide, Section on Automation in Vulnerability Management, Page 205-208).

NEW QUESTION # 26

What is the main objective of ISO 42001 in AI management systems?

- A. To regulate hardware used in AI deployments.
- B. To provide guidelines only for small-scale AI projects.
- C. To establish requirements for an AI management system within organizations.
- D. To focus solely on technical specifications for AI algorithms.

Answer: C

Explanation:

ISO 42001 outlines a framework for organizations to manage AI responsibly, covering risk assessment, governance, and continual improvement. It ensures alignment with ethical principles, promoting trustworthy AI through structured processes. Applicable across sectors, it integrates with existing management systems like ISO 27001. Exact extract: "The main objective of ISO 42001 is to establish requirements for an AI management system in organizations." (Reference: Cyber Security for AI by SISA Study Guide, Section on ISO 42001 Overview, Page 260-263).

NEW QUESTION # 27

In a Transformer model processing a sequence of text for a translation task, how does incorporating positional encoding impact the model's ability to generate accurate translations?

- A. It helps the model distinguish the order of words in the sentence, leading to more accurate translation by maintaining the context of each word's position.
- B. It ensures that the model treats all words as equally important, regardless of their position in the sequence.
- C. It simplifies the model's computations by merging all words into a single representation, regardless of their order.
- D. It speeds up processing by reducing the number of tokens the model needs to handle.

Answer: A

Explanation:

Positional encoding in Transformers addresses the lack of inherent sequential information in self-attention by embedding word order into token representations, using functions like sine and cosine to assign unique positional vectors. This enables the model to differentiate word positions, crucial for translation where syntax and context depend on sequence (e.g., subject-verb-object order). Without it, Transformers treat inputs as bags of words, losing syntactic accuracy. Positional encoding ensures precise contextual understanding, unlike options that misrepresent its role. Exact extract: "Positional encoding helps Transformers distinguish word order, leading to more accurate translations by maintaining positional context." (Reference: Cyber Security for AI by SISA Study Guide, Section on Transformer Components, Page 55-57).

NEW QUESTION # 28

For effective AI risk management, which measure is crucial when dealing with penetration testing and supply chain security?

- A. Implement penetration testing only for high-risk components and ignore less critical ones.
- B. Prioritize external audits over internal penetration testing to assess supply chain security.
- C. Perform occasional penetration testing and only address vulnerabilities in the internal network.
- D. Conduct comprehensive penetration testing and continuously evaluate both internal systems and third-party components in the supply chain.

Answer: D

Effective AI risk management requires comprehensive penetration testing and continuous evaluation of both internal and third-party supply chain components to identify vulnerabilities like backdoors or weak APIs. This holistic approach, aligned with SISA risk models, ensures robust security across the AI ecosystem, unlike limited or external-only testing. Exact extract: "Comprehensive penetration testing and continuous evaluation of internal and third-party components are crucial for AI risk management." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Risk Assessment Models, Page 180-183).

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