Valid SISA CSPAI Test Sample - CSPAI New Study Guide

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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• Using Gen AI for Improving the Security Posture: This section of the exam measures skills of the Cybersecurity Risk Manager and focuses on how Gen AI tools can strengthen an organization's overall security posture. It includes insights on how automation, predictive analysis, and intelligent threat detection can be used to enhance cyber resilience and operational defense.
Topic 4	• Improving SDLC Efficiency Using Gen AI: This section of the exam measures skills of the AI Security Analyst and explores how generative AI can be used to streamline the software development life cycle. It emphasizes using AI for code generation, vulnerability identification, and faster remediation, all while ensuring secure development practices.

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CSPAI New Study Guide - CSPAI Certification Questions

This kind of polished approach is beneficial for a commendable grade in the Certified Security Professional in Artificial Intelligence (CSPAI) exam. While attempting the exam, take heed of the clock ticking, so that you manage the SISA CSPAI questions in a time-efficient way. Even if you are completely sure of the correct answer to a question, first eliminate the incorrect ones, so that you

may prevent blunders due to human error.

SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q46-Q51):

NEW QUESTION # 46
In ISO 42001, what is required for AI risk treatment?

- A. Delegating all risk management to external auditors.
- B. Ignoring risks below a certain threshold.
- C. Focusing only on post-deployment risks.
- D. Identifying, analyzing, and evaluating AI-specific risks with treatment plans.

Answer: D

Explanation:
ISO 42001 mandates a systematic risk treatment process, involving identification of AI risks (e.g., bias, security), analysis of impacts, evaluation against criteria, and development of treatment plans like mitigation or acceptance. This ensures proactive management throughout the AI lifecycle. Exact extract: "ISO 42001 requires identifying, analyzing, and evaluating AI risks with appropriate treatment plans." (Reference: Cyber Security for AI by SISA Study Guide, Section on Risk Treatment in ISO 42001, Page 270-273).

NEW QUESTION # 47
What is a key benefit of using GenAI for security analytics?

- A. Limiting analysis to historical data only.
- B. Reducing the use of analytics tools to save costs.
- C. Increasing data silos to protect information.
- D. Predicting future threats through pattern recognition in large datasets.

Answer: D

Explanation:
GenAI revolutionizes security analytics by mining massive datasets for patterns, predicting emerging threats like zero-day attacks through generative modeling. It synthesizes insights from disparate sources, enabling proactive defenses and anomaly detection with high precision. This foresight allows organizations to allocate resources effectively, preventing breaches before they occur. In practice, it integrates with SIEM systems for enhanced threat hunting. The benefit lies in transforming reactive security into predictive, bolstering posture against sophisticated adversaries. Exact extract: "A key benefit of GenAI in security analytics is predicting future threats via pattern recognition, improving proactive security measures." (Reference: Cyber Security for AI by SISA Study Guide, Section on Predictive Analytics with GenAI, Page 220-223).

NEW QUESTION # 48
A company's chatbot, Tay, was poisoned by malicious interactions. What is the primary lesson learned from this case study?

- A. Chatbots should have limited conversational abilities to prevent poisoning.
- B. Open interaction with users without safeguards can lead to model poisoning and generation of inappropriate content.
- C. Continuous live training is essential for enhancing chatbot performance.
- D. Encrypting user data can prevent such attacks

Answer: B

Explanation:
The Tay incident, where Microsoft's chatbot was manipulated via toxic inputs to produce offensive content, underscores the dangers of unfiltered live learning, leading to rapid poisoning. Key lesson: Implement safeguards like content filters, rate limits, and moderated feedback loops to prevent adversarial exploitation.
This informs AI security by emphasizing input validation and ethical alignment in interactive systems. Exact extract: "Open interactions without safeguards can lead to model poisoning and inappropriate content, as seen in the Tay case." (Reference: Cyber Security for AI by SISA Study Guide, Section on Case Studies in AI Poisoning, Page 160-163).

NEW QUESTION # 49
What is a primary step in the risk assessment model for GenAI data privacy?

- A. Ignoring data sources to speed up assessment.
- B. Relying on vendor assurances without verification.
- C. Conducting data flow mapping to identify privacy risks.
- D. Limiting assessment to model outputs only.

Answer: C

Explanation:
Risk assessment for GenAI begins with comprehensive data flow mapping, tracing inputs, processing, and outputs to pinpoint privacy vulnerabilities like unintended data leakage. This step reveals how personal information is handled, enabling classification of risks under frameworks like GDPR or ISO 27701. It facilitates the identification of controls such as anonymization or consent mechanisms. In GenAI, where models infer from vast data, this prevents re-identification attacks. Exact extract: "A primary step in GenAI data privacy risk assessment is conducting data flow mapping to identify and mitigate privacy risks." (Reference: Cyber Security for AI by SISA Study Guide, Section on Privacy Risk Models, Page 235-238).

NEW QUESTION # 50
In a financial technology company aiming to implement a specialized AI solution, which approach would most effectively leverage existing AI models to address specific industry needs while maintaining efficiency and accuracy?

- A. Using a general Large Language Model (LLM) without adaptation, relying solely on its broad capabilities to handle financial tasks.
- B. Integrating multiple separate Domain-Specific GenAI models for various financial functions without using a foundational model for consistency
- C. Building a new, from scratch Domain-Specific GenAI model for financial tasks without leveraging preexisting models.
- D. Adopting a Foundation Model as the base and fine-tuning it with domain-specific financial data to enhance its capabilities for forecasting and risk assessment.

Answer: D

Explanation:
Leveraging foundation models like GPT or BERT for fintech involves fine-tuning with sector-specific data, such as transaction logs or market trends, to tailor for tasks like risk prediction, ensuring high accuracy without the overhead of scratch-building. This approach maintains efficiency by reusing pretrained weights, reducing training time and resources in SDLC, while domain adaptation mitigates generalization issues. It outperforms unadapted general models or fragmented specifics by providing cohesive, scalable solutions.
Security is enhanced through controlled fine-tuning datasets. Exact extract: "Adopting a Foundation Model and fine-tuning with domain-specific data is most effective for leveraging existing models in fintech, balancing efficiency and accuracy." (Reference: Cyber Security for AI by SISA Study Guide, Section on Model Adaptation in SDLC, Page 105-108).

NEW QUESTION # 51
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