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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 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.

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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q11-Q16):

NEW QUESTION # 11

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

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

Answer: D

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 # 12

How can Generative AI be utilized to enhance threat detection in cybersecurity operations?

- A. By creating synthetic attack scenarios for training detection models.
- B. By generating random data to overload security systems.
- C. By replacing all human analysts with AI-generated reports.
- D. By automating the deletion of security logs to reduce storage costs.

Answer: A

Explanation:

Generative AI improves security posture by synthesizing realistic cyber threat scenarios, which can be used to train and test detection systems without exposing real networks to risks. This approach allows for the creation of diverse, evolving attack patterns that mimic advanced persistent threats, enabling machine learning models to learn from simulated data and improve accuracy in identifying anomalies. For example, GenAI can generate phishing emails or malware variants, helping in proactive defense tuning. This not only enhances detection rates but also reduces false positives through better model robustness. Integration into security operations centers (SOCs) facilitates continuous improvement, aligning with zero-trust architectures. Security benefits include cost-effective training and faster response to emerging threats. Exact extract: "Generative AI enhances threat detection by creating synthetic attack scenarios for training models, thereby improving the overall security posture without real-world risks." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI Applications in Threat Detection, Page 200-203).

NEW QUESTION # 13

In assessing GenAI supply chain risks, what is a critical consideration?

- A. Evaluating third-party components for embedded vulnerabilities.
- B. Ignoring open-source dependencies to reduce complexity.
- C. Focusing only on internal development risks.
- D. Assuming all vendors comply with standards automatically.

Answer: A

Explanation:

GenAI supply chain risk assessment prioritizes scrutinizing third-party libraries, datasets, and models for vulnerabilities like backdoors or biases, using tools for dependency scanning. This holistic view prevents cascade failures, as seen in compromised pretrained models. Mitigation includes vendor audits and secure sourcing. Exact extract: "A critical consideration in GenAI supply chain risks is evaluating third-party components for vulnerabilities." (Reference: Cyber Security for AI by SISA Study Guide, Section on Supply Chain Risk Assessment, Page 250-253).

NEW QUESTION # 14

How does AI enhance customer experience in retail environments?

- A. By integrating personalized interactions with AI-driven analytics for a more customized shopping experience.
- B. By automating repetitive tasks and providing consistent data driven insights to improve customer service.
- C. By optimizing customer service through automated systems and tailored recommendations.
- D. By ensuring every customer receives the same generic response from automated systems.

Answer: A

Explanation:

AI enhances retail CX through personalization, using analytics to recommend products based on behavior, preferences, and history, creating tailored experiences that boost satisfaction and loyalty. Tools like chatbots and predictive models enable real-time interactions, while security posture improves via fraud detection integrated into these systems. This data-driven approach ensures relevance, differentiating from generic methods. Automation supports but personalization drives engagement. Exact extract: "AI integrates personalized interactions with driven analytics to customize shopping experiences, thereby enhancing customer satisfaction in retail." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI in Security and Customer Enhancement, Page 70-73).

NEW QUESTION # 15

In the context of LLM plugin compromise, as demonstrated by the ChatGPT Plugin Privacy Leak case study, what is a key practice to secure API access and prevent unauthorized information leaks?

- A. Restricting API access to a predefined list of IP addresses
- B. Allowing open API access to facilitate ease of integration
- C. Implementing stringent authentication and authorization mechanisms, along with regular security audits
- D. Increasing the frequency of API endpoint updates.

Answer: C

Explanation:

The ChatGPT Plugin Privacy Leak highlighted vulnerabilities in plugin ecosystems, where weak API security led to data exposure. Implementing robust authentication (e.g., OAuth) and authorization (e.g., RBAC), coupled with regular audits, ensures only verified entities access APIs, preventing leaks. IP whitelisting is less comprehensive, and open access heightens risks. Audits detect misconfigurations, aligning with secure AI practices. Exact extract: "Stringent authentication, authorization, and regular audits are key to securing API access and preventing leaks in LLM plugins." (Reference: Cyber Security for AI by SISA Study Guide, Section on Plugin Security Case Studies, Page 170-173).

NEW QUESTION # 16

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