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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"> 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 3	<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 4	<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.

SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q26-Q31):

NEW QUESTION # 26

How does GenAI contribute to incident response in cybersecurity?

- A. By automating playbook generation and response orchestration.
- B. By delaying responses to gather more data for analysis.
- C. By manually reviewing each incident without AI assistance.
- D. By focusing only on post-incident reporting.

Answer: A

Explanation:

GenAI enhances incident response by dynamically generating customized playbooks based on threat intelligence and orchestrating automated actions like isolation or patching. It processes vast logs in real-time, correlating events to prioritize alerts and suggest optimal responses, reducing mean time to respond (MTTR).

For complex incidents, it simulates outcomes of different strategies, aiding decision-making. This automation frees analysts for strategic tasks, improving efficiency and effectiveness in containing breaches. Exact extract:

"GenAI contributes to incident response by automating playbook generation and orchestration, enhancing cybersecurity operations." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI in Incident Response, Page 215-218).

NEW QUESTION # 27

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 # 28

What metric is often used in GenAI risk models to evaluate bias?

- A. Computational efficiency during training.
- B. Fairness metrics like demographic parity or equalized odds.
- C. Number of parameters in the model.
- D. Accuracy rate without considering demographics.

Answer: B

Explanation:

Bias assessment in GenAI employs fairness metrics such as demographic parity (equal outcomes across groups) or equalized odds (balanced error rates), quantifying disparities in outputs. These metrics guide debiasing techniques, ensuring ethical AI under risk models. In applications like hiring tools, they prevent discriminatory generations, aligning with regulatory requirements. Exact extract: "Fairness metrics like demographic parity are used in GenAI risk models to evaluate and mitigate bias." (Reference: Cyber Security for AI by SISA Study Guide, Section on Bias Assessment Metrics, Page 245-248).

NEW QUESTION # 29

Which of the following is a potential use case of Generative AI specifically tailored for CXOs (Chief Experience Officers)?

- A. Developing autonomous vehicles for urban mobility solutions.
- B. Automating financial transactions in blockchain networks.
- C. Enhancing customer support through AI-powered chatbots that provide 24/7 assistance.
- D. Conducting genetic sequencing for personalized medicine

Answer: C

Explanation:

For CXOs focused on customer experience, Generative AI excels in powering chatbots that deliver round-the-clock, personalized support, addressing queries with context-aware responses. This enhances user satisfaction by reducing wait times and tailoring interactions using predictive analytics, while integrated security measures like anomaly detection safeguard against threats like phishing. Unlike unrelated applications like autonomous vehicles or genetic sequencing, chatbots directly align with CXO goals of improving engagement and trust.

Security posture is bolstered by monitoring interactions for malicious inputs, ensuring safe AI-driven CX.

Exact extract: "Generative AI enhances customer support through AI-powered chatbots providing 24/7 assistance, tailored for CXOs to improve engagement and security." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI for CX Enhancement, Page 75-78).

NEW QUESTION # 30

What does the OCTAVE model emphasize in GenAI risk assessment?

- A. Exclusion of stakeholder input in assessments.
- B. Solely technical vulnerabilities in AI models.
- C. Short-term tactical responses over strategic planning.
- D. Operational Critical Threat, Asset, and Vulnerability Evaluation focused on organizational risks.

Answer: D

Explanation:

OCTAVE adapts to GenAI by emphasizing organizational risk perspectives, identifying critical assets like models and data, evaluating threats, and prioritizing mitigations through stakeholder collaboration. It fosters a strategic, enterprise-wide approach to AI risks, integrating business impacts. Exact extract: "OCTAVE emphasizes operational critical threat, asset, and vulnerability evaluation in GenAI risk assessment." (Reference: Cyber Security for AI by SISA Study Guide, Section on OCTAVE for AI, Page 255-258).

NEW QUESTION # 31

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