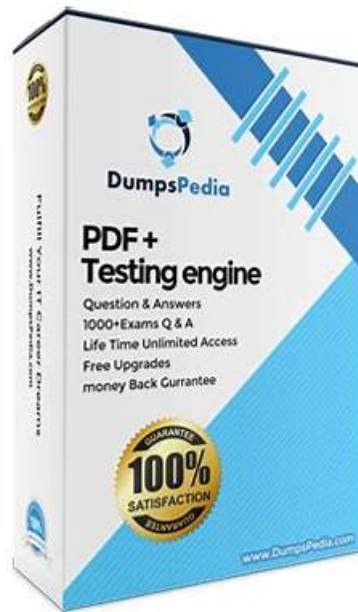


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## SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q43-Q48):

### NEW QUESTION # 43

How does the STRIDE model adapt to assessing threats in GenAI?

- A. By using it unchanged from traditional software.
- **B. By applying Spoofing, Tampering, Repudiation, Information Disclosure, Denial of Service, and Elevation of Privilege to AI components.**
- C. By focusing only on hardware threats in AI systems.
- D. By excluding AI-specific threats like model inversion.

**Answer: B**

Explanation:

The STRIDE model adapts to GenAI by evaluating threats across its categories: Spoofing (e.g., fake inputs), Tampering (e.g., data poisoning), Repudiation (e.g., untraceable generations), Information Disclosure (e.g., leakage from prompts), Denial of Service (e.g., resource exhaustion), and Elevation of Privilege (e.g., jailbreaking). This systematic threat modeling helps in designing resilient GenAI systems, incorporating AI-unique aspects like adversarial inputs. Exact extract: "STRIDE adapts to GenAI by applying its threat categories to AI components, assessing specific risks like tampering or disclosure." (Reference: Cyber Security for AI by SISA Study Guide, Section on Threat Modeling for GenAI, Page 240-243).

### NEW QUESTION # 44

What is a key benefit of using GenAI for security analytics?

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

**Answer: B**

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 # 45

Which of the following is a method in which simulation of various attack scenarios are applied to analyze the model's behavior under those conditions.

- A. Adversarial testing
- **B. Adversarial testing involves systematically simulating attack vectors, such as input perturbations or evasion techniques, to evaluate an AI model's robustness and identify vulnerabilities before deployment. This proactive method replicates real-world threats, like adversarial examples that fool classifiers or prompt manipulations in LLMs, allowing developers to observe behavioral anomalies, measure resilience, and implement defenses like adversarial training or input validation. Unlike passive methods like input sanitation, which cleans data reactively, adversarial testing is dynamic and comprehensive, covering scenarios from data poisoning to model inversion. In practice, tools like CleverHans or ART libraries facilitate these**

simulations, providing metrics on attack success rates and model degradation. This is crucial for securing AI models, as it uncovers hidden weaknesses that could lead to exploits, ensuring compliance with security standards. By iterating through attack-defense cycles, it enhances overall data and model integrity, reducing risks in high-stakes environments like autonomous systems or financial AI. Exact extract: "Adversarial testing is a method where simulation of various attack scenarios is applied to analyze the model's behavior, helping to fortify AI against potential threats." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Model Security Testing, Page 140-143).

- C. Prompt injections
- D. Model firewall
- E. input sanitation

**Answer: B**

#### NEW QUESTION # 46

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

**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 # 47

Which of the following is a primary goal of enforcing Responsible AI standards and regulations in the development and deployment of LLMs?

- A. Ensuring that AI systems operate safely, ethically, and without causing harm
- B. Focusing solely on improving the speed and scalability of AI systems
- C. Developing AI systems with the highest accuracy regardless of data privacy concerns
- D. Maximizing model performance while minimizing computational costs.

**Answer: A**

Explanation:

Responsible AI standards, including ISO 42001 for AI management systems, aim to promote ethical development, ensuring safety, fairness, and harm prevention in LLM deployments. This encompasses bias mitigation, transparency, and accountability, aligning with societal values. Regulations like the EU AI Act reinforce this by categorizing risks and mandating safeguards. The goal transcends performance to foster trust and sustainability, addressing issues like discrimination or misuse. Exact extract: "The primary goal is to ensure AI systems operate safely, ethically, and without causing harm, as outlined in standards like ISO 42001." (Reference: Cyber Security for AI by SISA Study Guide, Section on Responsible AI and ISO Standards, Page 150-153).

#### NEW QUESTION # 48

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