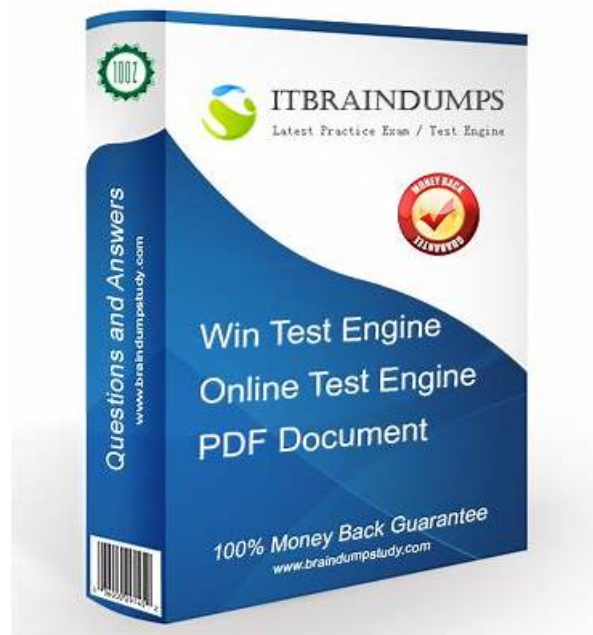


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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	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.
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	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 4	• 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 5	• Models for Assessing Gen AI Risk: This section of the exam measures skills of the Cybersecurity Risk Manager and deals with frameworks and models used to evaluate risks associated with deploying generative AI. It includes methods for identifying, quantifying, and mitigating risks from both technical and governance perspectives.

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SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q22-Q27):

NEW QUESTION # 22

How does AI enhance customer experience in retail environments?

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

Answer: C

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 # 23

In a time-series prediction task, how does an RNN effectively model sequential data?

- **A. By using hidden states to retain context from prior time steps, allowing it to capture dependencies across the sequence.**
- B. By processing each time step independently, optimizing the model's performance over time.
- C. By focusing on the overall sequence structure rather than individual time steps for a more holistic approach.
- D. By storing only the most recent time step, ensuring efficient memory usage for real-time predictions

Answer: A

Explanation:

RNNs model sequential data in time-series tasks by maintaining hidden states that propagate information across time steps, capturing temporal dependencies like trends or seasonality. This memory mechanism allows RNNs to learn from past data, unlike independent processing or holistic approaches, though they face gradient issues for long sequences. Exact extract: "RNNs use hidden states to retain context from prior time steps, effectively capturing dependencies in sequential data for time-series tasks." (Reference: Cyber Security for AI by SISA Study Guide, Section on RNN Architectures, Page 40-43).

NEW QUESTION # 24

How does machine learning improve the accuracy of predictive models in finance?

- A. By avoiding any use of past data and focusing solely on current trends
- **B. By continuously learning from new data patterns to refine predictions**
- C. By using historical data patterns to make predictions without updates
- D. By relying exclusively on manual adjustments and human input for predictions.

Answer: B

Explanation:

Machine learning enhances financial predictive models by continuously learning from new data, refining predictions for tasks like fraud detection or market forecasting. This adaptability leverages evolving patterns, unlike static historical or manual methods, and improves security posture through real-time anomaly detection. Exact extract: "ML improves financial predictive accuracy by continuously learning from new data patterns to refine predictions." (Reference: Cyber Security for AI by SISA Study Guide, Section on ML in Financial Security, Page 85-88).

NEW QUESTION # 25

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. Increasing the frequency of API endpoint updates.
- **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 # 26

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

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

Answer: D

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).

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