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27.09.2024	27.09.2027	123456	DHARSHAN SHANTHAMURTHY
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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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.
Topic 3	• 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 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.

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

NEW QUESTION # 11
What is a key concept behind developing a Generative AI (GenAI) Language Model (LLM)?

- A. Rule-based programming
- B. Operating only in supervised environments
- C. Data-driven learning with large-scale datasets
- D. Human intervention for every decision

Answer: C

Explanation:
GenAI LLMs rely on data-driven learning, leveraging vast datasets to model language patterns, semantics, and contexts through unsupervised or semi-supervised methods. This enables scalability and adaptability, unlike rule-based systems or human-dependent approaches. Large datasets drive generalization, though they introduce security challenges like data quality control. Exact extract: "A key concept of GenAI LLMs is data- driven learning with large-scale datasets, enabling robust language modeling." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI Development Principles, Page 60-63).

NEW QUESTION # 12
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 # 13
What aspect of privacy does ISO 27563 emphasize in AI data processing?

- A. Consent management and data minimization principles.
- B. Maximizing data collection for better AI performance.
- C. Sharing data freely among AI systems.
- D. Storing all data indefinitely for auditing.

Answer: A

Explanation:
ISO 27563 stresses consent management, ensuring informed user agreement, and data minimization, collecting only necessary data to reduce privacy risks in AI processing. These principles prevent overreach and support ethical data handling. Exact extract: "ISO

27563 emphasizes consent management and data minimization in AI data processing for privacy." (Reference: Cyber Security for AI by SISA Study Guide, Section on Privacy Principles in ISO 27563, Page 275-278).

NEW QUESTION # 14
In a time-series prediction task, how does an RNN effectively model sequential data?

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

Answer: B

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 # 15
In what way can GenAI assist in phishing detection and prevention?

- A. By sending automated phishing emails to test employee awareness.
- B. By relying solely on signature-based detection methods.
- C. By blocking all incoming emails to prevent any potential threats.
- D. By generating realistic phishing simulations and analyzing user responses.

Answer: D

Explanation:
GenAI bolsters phishing defenses by creating sophisticated simulation campaigns that mimic real attacks, training employees and refining detection algorithms based on interaction data. It analyzes email content, URLs, and attachments semantically to identify subtle manipulations, going beyond traditional filters. This dynamic method adapts to evolving tactics like AI-generated deepfakes in emails, improving prevention through predictive modeling. Organizations benefit from reduced successful breach rates and enhanced user education. Integration with email gateways provides real-time alerts, strengthening overall security. Exact extract: "GenAI assists in phishing detection by generating simulations and analyzing responses, thereby preventing attacks and improving security posture." (Reference: Cyber Security for AI by SISA Study Guide, Section on GenAI in Phishing Mitigation, Page 210-213).

NEW QUESTION # 16
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