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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 4	• 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
What aspect of privacy does ISO 27563 emphasize in AI data processing?

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

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 # 23
When deploying LLMs in production, what is a common strategy for parameter-efficient fine-tuning?

- A. Using external reinforcement learning to adjust the model's parameters dynamically.
- B. Training the model from scratch on the target task to achieve optimal performance.
- C. Implementing multiple independent models for each specific task instead of fine tuning a single model
- D. Freezing the majority of model parameters and only updating a small subset relevant to the task

Answer: D

Explanation:
Parameter-efficient fine-tuning (PEFT) strategies, like LoRA or adapters, freeze most pretrained parameters and train only lightweight modules, reducing computational costs while adapting to new tasks. This preserves general knowledge, prevents catastrophic forgetting, and enables quick deployments in resource-constrained settings. For LLMs, it's crucial for efficiency in production, allowing specialization without retraining billions of parameters. Security-wise, it minimizes exposure to new data risks. Exact extract: "A common strategy is freezing the majority of model parameters and updating only a small task-relevant subset, ensuring efficiency in fine-tuning for production deployment." (Reference: Cyber Security for AI by SISA Study Guide, Section on Efficient Fine-Tuning in SDLC, Page 90-92).

NEW QUESTION # 24
How does the STRIDE model adapt to assessing threats in GenAI?

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

Answer: D

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 # 25
What metric is often used in GenAI risk models to evaluate bias?

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

Answer: A

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 # 26
In ISO 42001, what is required for AI risk treatment?

- A. Ignoring risks below a certain threshold.
- B. Focusing only on post-deployment risks.
- C. Identifying, analyzing, and evaluating AI-specific risks with treatment plans.
- D. Delegating all risk management to external auditors.

Answer: C

Explanation:
ISO 42001 mandates a systematic risk treatment process, involving identification of AI risks (e.g., bias, security), analysis of impacts, evaluation against criteria, and development of treatment plans like mitigation or acceptance. This ensures proactive management throughout the AI lifecycle. Exact extract: "ISO 42001 requires identifying, analyzing, and evaluating AI risks with appropriate treatment plans." (Reference: Cyber Security for AI by SISA Study Guide, Section on Risk Treatment in ISO 42001, Page 270-273).

NEW QUESTION # 27
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