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## ISACA AAISM Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>AI Technologies and Controls: This section of the exam measures the expertise of AI Security Architects and assesses knowledge in designing secure AI architecture and controls. It addresses privacy, ethical, and trust concerns, data management controls, monitoring mechanisms, and security control implementation tailored to AI systems.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>AI Governance and Program Management: This section of the exam measures the abilities of AI Security Governance Professionals and focuses on advising stakeholders in implementing AI security through governance frameworks, policy creation, data lifecycle management, program development, and incident response protocols.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>AI Risk Management: This section of the exam measures the skills of AI Risk Managers and covers assessing enterprise threats, vulnerabilities, and supply chain risk associated with AI adoption, including risk treatment plans and vendor oversight.</li> </ul>

## ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q218-Q223):

### NEW QUESTION # 218

An organization implementing a large language model (LLM) application notices significant and unexpected cost increases due to excessive computational resource usage. Which vulnerability is MOST likely in need of mitigation?

- A. Excessive agency
- B. Sensitive information disclosure
- C. System prompt leakage
- D. Unbounded consumption**

### Answer: D

Explanation:

AAISM highlights unbounded consumption (token/payment exhaustion, unmetered tool calls, prompt bombs) as a key LLM risk affecting cost and availability. Controls include request quotas, max tokens, rate- limits, budget guards, circuit breakers, and cost-aware routing. Excessive agency (A) relates to unsupervised actions; sensitive disclosure (B) and prompt leakage (C) are confidentiality risks, not primary drivers of runaway compute spend.

References: AI Security Management (AAISM) Body of Knowledge - LLM Risk Taxonomy (Abuse & Cost Risks); Guardrails: Rate-Limiting, Quotas, and Budget Controls; Resilience and Cost-Containment Patterns.

### NEW QUESTION # 219

An organization is implementing AI agent development across engineering teams. What should AI-specific training focus on?

- A. Dataset bias, explainability, fairness
- B. Output moderation, hallucination handling, policy alignment
- C. Prompt injection, agent memory control, insecure tool execution**
- D. API abuse, data leakage, third-party plug-in risk

### Answer: C

Explanation:

AAISM states that AI agent security training should focus on the unique risks of agentic systems, which include:

- \* prompt injection
- \* memory control and context hijacking
- \* unsafe tool execution (agents triggering unauthorized actions)

These risks are specific to autonomous or semi-autonomous AI agents.

Bias, fairness (B) and output moderation (C) are important but not the most critical for agent security. API abuse and plug-in risk (D) matter but are secondary.

References: AAISM Study Guide - Agentic AI Security; Prompt Injection and Tool Execution Risks.

### NEW QUESTION # 220

A health services organization is developing a proprietary generative AI chatbot to assist patients with medical devices. Which of the following should be the organization's HIGHEST priority?

- A. Maximizing the amount of training data
- B. Tuning algorithms used in the AI model
- **C. Selecting the appropriate training data**
- D. Maximizing neural network size

**Answer: C**

Explanation:

AAISM prioritizes training data suitability-lawful sourcing, provenance, quality, representativeness, and safety-especially in health-related applications. The correctness and appropriateness of training data determine clinical safety, reduction of harmful outputs, and compliance with data protection/sector obligations. Larger models or more data do not compensate for inappropriate or low-quality datasets; tuning is secondary to ensuring the right data with rigorous curation, labeling quality, and guardrails aligned to patient safety requirements.

References.\* AI Security Management (AAISM) Body of Knowledge: Data Governance & Quality; High- Risk/Health Context Controls; Safety & Harm Minimization\* AAISM Study Guide: Data Provenance & Suitability, Domain-Specific Dataset Controls; Compliance-by-Design for Sensitive Sectors

### NEW QUESTION # 221

Which of the following approaches BEST enables the separation of sensitive and shareable data to prevent an AI chatbot from inadvertently disclosing confidential information?

- A. Sandboxing
- **B. Siloing**
- C. Containerization
- D. Zero Trust

**Answer: B**

Explanation:

AAISM materials describe data segregation and segmented access as core technical controls to prevent unintended information disclosure by AI systems. Siloing refers to logically or physically separating data into distinct repositories or contexts, ensuring that sensitive datasets are not available to components or applications that only require non-sensitive information. This is directly aligned with preventing a chatbot from accessing or mixing confidential data with general conversational content. Zero Trust (A) is an overarching security architecture principle, focusing on identity and continuous verification; it does not by itself guarantee separation of data. Sandboxing (B) isolates processes but is less about fine-grained data separation. Containerization (D) packages applications and their dependencies, again not necessarily solving the specific problem of mixing sensitive and non-sensitive datasets. Siloing is explicitly highlighted as a way to prevent cross-context leakage in AI use cases.

References: AI Security Management™ (AAISM) Study Guide - Technical Controls for AI Data Protection; Data Segregation and Access Boundaries.

### NEW QUESTION # 222

When an attacker uses synthetic data to reverse engineer an organization's AI model, it is an example of which of the following types of attack?

- A. Prompt
- B. Poisoning
- C. Distillation
- **D. Inversion**

**Answer: D**

Explanation:

AAISM defines model inversion attacks as those where adversaries use queries or synthetic data to reconstruct sensitive information or approximate the inner workings of a model. By exploiting outputs, attackers attempt to reverse engineer training data or model functionality. Distillation refers to compressing models, not adversarial attacks. Prompt attacks relate to manipulating language model

inputs, and poisoning occurs when adversaries corrupt training data rather than infer from outputs. The scenario describes attackers using synthetic data to reveal hidden characteristics, which aligns directly with inversion attacks.

## References:

AAISM Exam Content Outline - AI Technologies and Controls (Attack Types and Mitigations) AI Security Management Study Guide - Model Inversion Risks

## NEW QUESTION # 223

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