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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">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.
Topic 3	<ul style="list-style-type: none">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.

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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q189-Q194):

NEW QUESTION # 189

An organization is planning to commission a third-party AI system to make decisions using sensitive data. Which of the following metrics is MOST important for the organization to consider?

- A. Accessibility rating
- B. Accuracy thresholds
- C. Model response time
- D. Service availability

Answer: B

Explanation:

When AI systems make consequential decisions over sensitive data, AAISM requires explicit performance thresholds tied to decision quality-i.e., accuracy (and related error/false-rate limits) aligned to business risk appetite and regulatory expectations. Availability and latency are important service metrics, but decision integrity and error bounds are primary risk drivers in sensitive contexts. Establishing, monitoring, and enforcing minimum accuracy thresholds (with subgroup performance checks) is essential to reduce harm, ensure fairness/compliance, and support auditability.

References.* AI Security Management (AAISM) Body of Knowledge: Risk-aligned performance metrics; decision quality thresholds; harm and error-rate governance in sensitive processing.* AI Security Management Study Guide: Metric selection for high-risk AI; accuracy, false positive/negative limits, and acceptance criteria tied to business controls.

NEW QUESTION # 190

A retail organization implements an AI-driven recommendation system that utilizes customer purchase history. Which of the following is the BEST way for the organization to ensure privacy and comply with regulatory standards?

- A. Maintaining a register of legal and regulatory requirements for privacy
- B. Storing customer data indefinitely to ensure the AI model has a complete history
- C. Conducting quarterly retraining of the AI model to maintain the accuracy of recommendations
- D. Establishing a governance committee to oversee AI privacy practices

Answer: A

Explanation:

According to the AI Security Management™ (AAISM) study framework, compliance with privacy and regulatory standards must begin with a formalized process of identifying, documenting, and maintaining applicable obligations. The guidance explicitly notes that organizations should maintain a comprehensive register of legal and regulatory requirements to ensure accountability and alignment with privacy laws. This register serves as the foundation for all governance, risk, and control practices surrounding AI systems that handle personal data.

Maintaining such a register ensures that the recommendation system operates under the principles of privacy by design and privacy by default. It allows decision-makers and auditors to trace every AI data processing activity back to relevant compliance obligations, thereby demonstrating adherence to laws such as GDPR, CCPA, or other jurisdictional mandates.

Other measures listed in the options contribute to good practice but do not achieve the same direct compliance outcome. Retraining models improves technical accuracy but does not address legal obligations. Oversight committees are valuable but require the documented register as a baseline to oversee effectively. Indefinite storage of customer data contradicts regulatory requirements, particularly the principle of data minimization and storage limitation.

AAISM Domain Alignment:

This requirement falls under Domain 1 - AI Governance and Program Management, which emphasizes organizational accountability,

policy creation, and maintaining compliance documentation as part of a structured governance program
References from AAISM and ISACA materials:

AAISM Exam Content Outline - Domain 1: AI Governance and Program Management AI Security Management Study Guide - Privacy and Regulatory Compliance Controls ISACA AI Governance Guidance - Maintaining Registers of Applicable Legal Requirements

NEW QUESTION # 191

Which of the following mitigation control strategies would BEST reduce the risk of introducing hidden backdoors during model fine-tuning via third-party components?

- A. Implementing unsupervised learning methods
- B. Performing threat modeling and integrity checks
- C. Leveraging open-source models and packages
- D. Disabling runtime logs during model training

Answer: B

Explanation:

The most effective way to reduce the risk of hidden backdoors entering during fine-tuning via third-party components is to apply supply-chain aware threat modeling and integrity verification across data, code, models, and dependencies. This includes SBOM/MBOM review, cryptographic signing and hash verification, controlled provenance of datasets and model weights, dependency pinning, secure artifact repositories, and pre-deployment security testing (including backdoor scans and evals). Merely preferring open-source (Option B) does not guarantee integrity; learning paradigm changes (Option C) are unrelated to supply-chain risk; and disabling logs (Option D) reduces forensic visibility and increases risk.

References:

AAISM Body of Knowledge: Secure AI Supply Chain; Model Provenance, Integrity and SBOM/MBOM Controls; Pre-deployment Security Testing and Backdoor/Poisoning Evals.

AAISM Study Guide: AI Threat Modeling (Attack Surfaces in Training/Fine-tuning); Third-Party/Vendor Component Assurance; Cryptographic Integrity and Artifact Governance.

NEW QUESTION # 192

Which of the following AI-driven systems should have the MOST stringent recovery time objective (RTO)?

- A. Car navigation system
- B. Health support system
- C. Credit risk modeling system
- D. Industrial control system

Answer: D

Explanation:

AAISM risk guidance notes that the most stringent recovery objectives apply to industrial control systems, as downtime can directly disrupt critical infrastructure, manufacturing, or safety operations. Health support systems also require high availability, but industrial control often underpins safety-critical and real-time environments where delays can result in catastrophic outcomes. Credit risk models and navigation systems are important but less critical in terms of immediate physical and operational impact. Thus, industrial control systems require the tightest RTO.

References:

AAISM Study Guide - AI Risk Management (Business Continuity in AI)

ISACA AI Security Management - RTO Priorities for AI Systems

NEW QUESTION # 193

Which of the following involves documenting and monitoring the complete journey of data as it flows through an AI system?

- A. Processing
- B. Origin
- C. Lineage
- D. Transformation

Answer: C

Explanation:

Data lineage records and monitors the end-to-end journey of data-sources, movements, transformations, storage locations, uses, and dependencies-providing traceability, auditability, and accountability across the AI lifecycle. "Origin" is a single point (provenance), "transformation" is one step within the flow, and

"processing" is a general activity rather than a governance record of the entire path.

References: AI Security Management (AAISM) Body of Knowledge: Data Governance-Provenance and Lineage; AAISM Study Guide: Lineage Documentation, Traceability, and Audit Evidence.

NEW QUESTION # 194

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