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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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.

ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q209-Q214):

NEW QUESTION # 209

A financial organization relies on AI-based identity verification and fraud detection services. Which of the following BEST integrates AI security risk into the business continuity plan (BCP)?

- A. Duplicating AI microservices across multiple availability zones
- B. Including AI model supporting infrastructure in disaster recovery scenarios**
- C. Using explainable AI to document decision paths
- D. Periodic retraining using pre-labeled data

Answer: B

Explanation:

AAISM stresses that AI systems and their supporting infrastructure must be explicitly included in disaster recovery and continuity planning, since disruptions to models, feature stores, or pipelines can halt critical business functions.

Explainability (A) and retraining (B) are operational improvements, not continuity mechanisms. Multi-zone redundancy (D) improves availability but does not represent complete BCP integration.

References: AAISM Study Guide - AI Business Continuity and Resilience Requirements.

NEW QUESTION # 210

Which of the following factors is MOST important for preserving user confidence and trust in generative AI systems?

- A. Access controls and secure storage solutions
- B. Bias minimization
- C. Data anonymization
- D. Transparent disclosure and informed consent**

Answer: D

Explanation:

AAISM risk guidance underscores that transparent disclosure and informed consent are the most important factors in maintaining user trust in generative AI. Users must clearly understand how outputs are created, what data sources are used, and how risks such as bias or misinformation are managed. While bias minimization, access controls, and anonymization contribute to technical or ethical robustness, they are not sufficient to preserve user trust. Trust requires openness and consent, which align with governance expectations for transparency and accountability.

References:

AAISM Exam Content Outline - AI Risk Management (Transparency and Trust) AI Security Management Study Guide - User Confidence in Generative AI

NEW QUESTION # 211

An organization is evaluating a SaaS-based HR system that uses AI for resume vetting. Which control is MOST important?

- A. Encryption and isolation of customer data
- **B. Inclusion of diverse and representative training data**
- C. Vendor conformity assessments
- D. Availability of backups

Answer: B

Explanation:

AAISM states that HR systems performing candidate evaluation must prioritize training data fairness, representativeness, and bias mitigation because biased HR decisions carry regulatory, ethical, and litigation risks.

Backups (B) and encryption (D) relate to availability and confidentiality, not fairness. Conformity assessments (C) are helpful but secondary.

References: AAISM Study Guide - AI Bias and Fairness; High-Risk HR Use Cases.

NEW QUESTION # 212

A global organization experienced multiple incidents of staff pasting confidential data into public chatbots. Which action is MOST important to reduce short-term risk?

- A. Require employees to complete an annual generic phishing and deepfake module
- B. Block access to public LLMs at the network perimeter
- **C. Deliver role-based, scenario-driven AI security training mapped to job functions**
- D. Publish an AI acceptable use policy and collect signatures

Answer: C

Explanation:

AAISM states that the most effective short-term mitigation for unintentional data leakage into public AI tools is targeted, role-based AI security awareness, focused on:

- * what data cannot be entered
- * consequences of leakage
- * real-world scenarios employees face

An acceptable-use policy (C) is necessary but insufficient alone. Blocking LLMs (D) may reduce access but does not change user behavior and may cause shadow AI usage. Generic phishing training (B) does not address AI misuse risks.

References: AAISM Study Guide - AI Security Awareness; Human-Centric Data Leakage Prevention.

NEW QUESTION # 213

A post-incident investigation finds that an AI-powered anti-money laundering system inadvertently allowed suspicious transactions because certain risk signals were disabled to reduce false positives. Which of the following governance failures does this BEST demonstrate?

- **A. Insufficient model validation and change control processes**
- B. Lack of sufficient computing resources for the AI system
- C. Excessive reliance on external consultants for model design
- D. Absence of metrics and dashboards for analysts

Answer: A

Explanation:

AAISM states that AI risk signals, thresholds, and model logic must be governed through strict validation and change control processes. Disabling key risk indicators without formal review or testing directly reflects a failure in:

- * AI model validation
- * Change management
- * Governance oversight

This aligns precisely with option D.

Lack of dashboards (C) affects monitoring but does not explain disabled risk signals. Computing resources (A) would not cause intentional disabling. Reliance on consultants (B) is not connected to improper internal model changes.

References: AAISM Study Guide - AI Governance; Model Validation and Change Control Failures.

NEW QUESTION # 214

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