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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 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 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.

ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q41-Q46):

NEW QUESTION # 41

Who is responsible for implementing recommendations in a final report after an external AI compliance audit?

- A. Internal auditors
- B. System architects
- C. Model owners
- D. End users

Answer: C

Explanation:

Under AAISM governance, management and control owners are accountable for remediation. For AI systems, the accountable role is the Model Owner (or equivalent business/service owner), who coordinates with architects, engineers, and operations to implement corrective actions and report closure. Internal auditors provide independent assurance and do not implement fixes; end users are not remediation owners.

References: AI Security Management (AAISM) Body of Knowledge - Roles & Accountability (Model Owner, Control Owner, Assurance); Audit Findings Management and Remediation Governance.

NEW QUESTION # 42

A financial organization uses AI to detect potential fraudulent activities but is concerned about the impact of potential data poisoning. Which of the following controls would BEST mitigate this risk?

- A. Implementing an updated and tested break-glass policy
- B. Using training data from multiple sources
- C. Delivering AI-specific security awareness training
- D. Being transparent with customers about the data sources

Answer: B

Explanation:

AAISM identifies training-data diversity and provenance assurance as primary treatments against data poisoning. Sourcing data from multiple, independently governed providers, combined with ingestion validation and anomaly screening, reduces the chance that a single compromised source can skew model behavior and improves cross-source consistency checks. Transparency, break-glass, and awareness are valuable but do not directly reduce poisoning exposure at the training boundary.

References: AI Security Management™ (AAISM) Body of Knowledge - Data Governance & Integrity for AI; Adversarial ML: Poisoning Threats and Mitigations; Supplier and Source Diversification Controls.

NEW QUESTION # 43

During the deployment of a generative AI platform, a risk assessment highlighted threats such as data leakage and prompt manipulation. Which of the following is the BEST way to ensure appropriate control selection?

- A. Rely primarily on vendor-provided security features and seek third-party certifications
- B. Apply AI-specific controls from external frameworks without customization and initiate monitoring to expedite compliance
- C. Map identified AI threats to enterprise control catalogs and integrate AI-specific safeguards where gaps exist
- D. Postpone control selection until deployment and address risk through enhanced monitoring

Answer: C

Explanation:

AAISM requires that control selection be threat-led and context-specific, aligning AI threats to the organization's existing enterprise control catalogs (security, privacy, resilience) and augmenting them with AI-specific safeguards where coverage is insufficient. This ensures consistency with the risk appetite, removes duplication, and closes AI-unique gaps (e.g., prompt injection, data leakage from context windows, model misuse). Generic reliance on vendors or uncustomized external frameworks does not ensure fit-for-purpose coverage, and deferring control selection to post-deployment contradicts proactive risk treatment.

References: AI Security Management (AAISM) Body of Knowledge - Governance & Program Controls; Control Selection and Tailoring; Threat-to-Control Mapping for AI Systems; Risk Appetite & Control Assurance Alignment.

NEW QUESTION # 44

Which of the following AI data life cycle phases presents the GREATEST inherent risk?

- A. Maintenance
- B. Monitoring
- C. Training
- **D. Preparation**

Answer: D

Explanation:

The data Preparation phase-covering sourcing, collection, labeling, cleansing, and provenance-presents the greatest inherent risk because it is where privacy, consent, representativeness, bias, quality, lineage, and legality must be established. Decisions and defects here propagate into training and downstream use, amplifying ethical, regulatory, and accuracy risks.

While Training can introduce additional risks (e.g., poisoning, leakage), these are frequently mitigated by controls that depend on having trustworthy prepared data. Monitoring and Maintenance are later-life-cycle phases oriented toward detection and correction; they are critical but inherently rely on the foundation set during Preparation.

References: AI Security Management™ (AAISM) Body of Knowledge: "AI Data Lifecycle Risks-Sourcing, Consent, Provenance, and Bias," "Risk Treatment Priorities Across the Lifecycle"; AAISM Study Guide:

"Data Preparation Controls and Quality Gates," "Bias and Privacy Risk Controls at Ingestion."

NEW QUESTION # 45

A CISO has been tasked with providing key performance indicators (KPIs) on the organization's newly launched AI chatbot. Which of the following are the BEST metrics for the CISO to recommend?

- A. Response time and throughput
- B. Explainability and F1 score
- **C. Error rate and bias detection**
- D. Customer effort score and user retention rate

Answer: C

Explanation:

For executive security and governance reporting, AAISM prioritizes risk- and harm-oriented KPIs that reflect safety, reliability, and responsible behavior of AI systems. Error rate (safety/quality signal) and bias detection (fairness/compliance signal) provide leading indicators of model risk, potential user harm, and regulatory exposure-key interests for a CISO. Explainability and F1 (A) are model performance

/interpretability metrics; customer effort/retention (B) are business CX metrics; response time/throughput (C) are operational SRE metrics. While valuable, they are secondary to risk-centric KPIs for CISO oversight.

References: AI Security Management (AAISM) Body of Knowledge - AI Risk Metrics and Assurance; Governance Dashboards for AI. AAISM Study Guide - Operationalizing AI Controls; Safety, Fairness, and Compliance Indicators for Executive Reporting. O Error rate and bias detection

NEW QUESTION # 46

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