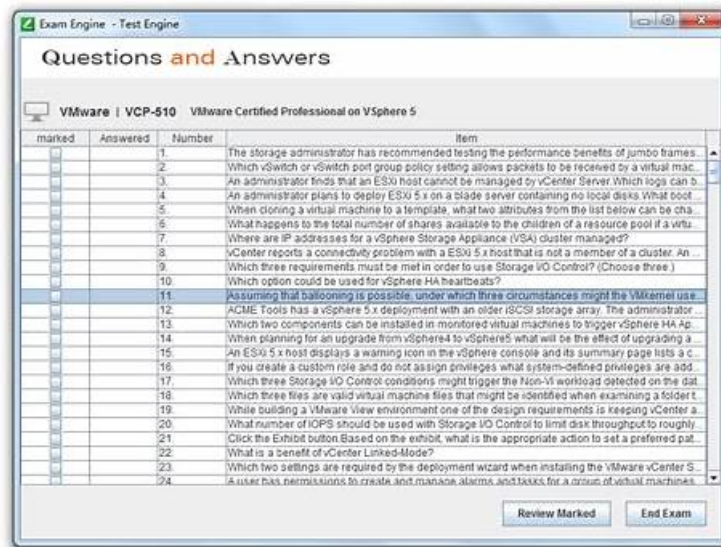


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ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Auditing Tools and Techniques: This section of the exam measures the skills of AI auditors and centers on auditing AI systems using appropriate tools and methods. It includes audit planning and design, sampling methodologies specific to AI, collecting audit evidence, using data analytics for quality assurance, and producing AI audit outputs and reports, including follow-up and quality control measures.

Topic 2	<ul style="list-style-type: none"> • AI GOVERNANCE AND RISK: It encompasses understanding different AI models and their life cycles, guiding AI strategy, defining roles and policies, managing AI-related risks, overseeing data privacy and governance, and ensuring adherence to ethical practices, standards, and regulations.
Topic 3	<ul style="list-style-type: none"> • AI Operations: It covers managing AI-specific data needs—including collection, quality, security, and classification—applying development lifecycle methodologies with privacy and security by design, change and incident management, testing AI solutions, identifying AI-related threats and vulnerabilities, and supervising AI deployments.

ISACA Advanced in AI Audit Sample Questions (Q116-Q121):

NEW QUESTION # 116

Which of the following is the MOST effective control to safeguard a model's architecture, weights, and hyperparameters?

- **A. Implement strict access controls and encryption for model components**
- B. Require users to sign a confidentiality agreement before accessing the model
- C. Provide training to employees on best practices for AI technical security
- D. Maintain detailed data audit logs of deviations in training data

Answer: A

Explanation:

The most effective way to protect proprietary AI model components-architecture, weights, hyperparameters-is through strict access controls and encryption(option D).

AAIA identifies model theft and reverse engineering as high-severity security risks, especially for organizations whose competitive advantage relies on intellectual property embedded in AI models.

Proper controls include:

- * Role-based access control (RBAC)
- * Encryption at rest and in transit
- * Model-level access segregation
- * Hardware security modules (HSMs)
- * Zero-trust access principles

Training (A) increases awareness but does not enforce protection.

Confidentiality agreements (B) are legally binding but do not stop technical intrusions.

Audit logs (C) track training data but do not secure the model itself.

Thus, encryption and access control provide the strongest protection.

References:

AAIA Domain 2: AI Security and Intellectual Property Protection

AAIA Domain 1: Access Control and Safeguards

NEW QUESTION # 117

Which of the following is the PRIMARY reason IS auditors must be aware that generative AI may return different investment recommendations from the same set of data?

- A. Limitations can arise in the quantification of risk profiles.
- B. Servers are reconfigured periodically.
- C. Neural node access varies each time the process is executed.
- **D. Computational logic is based on probabilities.**

Answer: D

NEW QUESTION # 118

An organization is reviewing its existing data governance framework after implementing an AI-based document repository solution. Which of the following should be the PRIMARY consideration?

- A. Data enrichment

- B. Qualitative data collection
- C. Data retention policy
- **D. Data classification**

Answer: D

Explanation:

The PRIMARY consideration is data classification (B), because the AI-based repository handles different types of documents that may contain sensitive, confidential, regulated, or public information. Proper classification ensures correct application of access controls, retention rules, encryption requirements, and privacy protections.

Retention (A) is important but flows from proper classification. Data enrichment (C) and qualitative data collection (D) are not foundational governance controls. AAIA emphasizes classification as the first step in robust AI data governance.

References:

ISACA, AAIA Exam Content Outline- Domain 1: Privacy and Data Governance Programs.

NEW QUESTION # 119

Which of the following should be an IS auditor's GREATEST concern when using a predictive AI tool to analyze data abnormalities?

- A. The speed at which the AI tool processes large data sets
- B. The cost of implementing and maintaining the AI tool for data audit purposes
- **C. The false positives or false negatives generated by the AI tool**
- D. The ease of integrating the AI tool with existing data audit software

Answer: C

Explanation:

For a predictive AI tool analyzing abnormalities, the GREATEST concern is the rate and impact of false positives and false negatives (A). False positives can lead to unnecessary investigation, while false negatives mean true issues (e.g., fraud, control failures) remain undetected. From an assurance perspective, false negatives are especially critical because they directly undermine audit objectives. AAIA underscores that key performance metrics (e.g., precision, recall) and error trade-offs are essential in evaluating AI tools used in audit.

Integration ease (B), speed (C), and cost (D) are important practical considerations but are secondary to whether the tool accurately identifies or misses significant anomalies. Therefore, error behavior—false positives and false negatives—represents the primary risk to audit quality.

References:

ISACA, AAIA Exam Content Outline- Domain 3: AI in Audit Processes; Domain 2: AI Operations (model performance metrics and risk).

ISACA analytics guidance on evaluating AI tools using precision, recall, and error analysis in audit contexts.

NEW QUESTION # 120

Which of the following is the GREATEST risk when training data is not separated into distinct training and testing sets?

- A. Model drift
- **B. Overfitting**
- C. Hallucinations
- D. Underfitting

Answer: B

Explanation:

If training and testing sets are not separated, the model evaluates itself on the same data it was trained on, creating a false sense of accuracy. The result is overfitting (option B): the model learns the training data too well and fails to generalize to new data.

AAIA emphasizes that proper data splitting is foundational to machine learning evaluation. Overfitting undermines real-world performance, creates untrustworthy predictions, and hides bias or errors.

Model drift (B) occurs after deployment. Hallucinations (C) relate more to generative models. Underfitting (D) occurs when the model is too simple, not from lack of dataset separation.

Thus, overfitting is the direct and greatest risk when training and testing sets are not segregated.

References:

AAIA Domain 2: Testing Techniques and Model Evaluation Standards.

AAIA Domain 1: Fundamentals of ML model training.

NEW QUESTION # 121

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