ISACA AAIA Practice Questions & Sample AAIA Exam

If you plan to apply for the ISACA Advanced in AI Audit (AAIA) certification exam, you need the best AAIA practice test material that can help you maximize your chances of success. You cannot rely on invalid AAIA Materials and then expect the results to be great. So, you must prepare from the updated ISACA AAIA Exam Dumps to crack the AAIA exam.

ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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.

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ISACA Advanced in AI Audit Sample Questions (Q149-Q154):

NEW QUESTION # 149
Which of the following should be an IS auditor's GREATEST concern when reviewing an anomaly detection process implemented for a high-risk AI system?

- A. Failure to identify anomalies that can bias training data
- B. Infrequent updates to anomaly detection algorithms
- C. Lack of regular quality reviews for training data
- D. Inadequate staff training on the use of the system

Answer: A

Explanation:
In a high-risk AI system, anomaly detection often serves as a frontline control to flag irregularities in input data and model behavior. The GREATEST concern for an IS auditor is when the process fails to identify anomalies that can bias training data (A), because undetected anomalies can fundamentally distort model learning and outputs. This can lead to systemic bias, incorrect decisions, safety risks, and regulatory breaches.
Option B (lack of regular quality reviews) is serious but is partially addressed if anomaly detection is effective. Option C (infrequent updates) may degrade detection performance over time but is less critical than outright failure to detect harmful anomalies. Option D (staff training) is important for operational effectiveness but still secondary to the technical failure to catch bias-inducing anomalies. AAIA stresses that data integrity and monitoring controls are paramount in high-risk contexts.
References:
ISACA, AAIA Exam Content Outline - Domain 2: AI Operations (Supervision of AI Solutions, data monitoring, and anomaly detection).
ISACA AI risk materials focusing on high-risk AI oversight and data integrity.

NEW QUESTION # 150
Which of the following is the BEST recommendation to mitigate excessive agency when implementing an AI system as a browser extension?

- A. Minimize browser extension functionality.
- B. Maximize browser extension functionality.
- C. Remove user access to browser extensions.
- D. Use open-source browser extensions.

Answer: A

Explanation:
Excessive agency occurs when AI systems act too autonomously, making decisions without appropriate human oversight. To mitigate this in a browser extension, the BEST approach is to minimize functionality (A), ensuring the extension performs only narrowly defined, controlled actions. This aligns with AAIA's guidance on limiting AI autonomy, applying least-privilege principles, and restricting unnecessary actions.
Removing user access entirely (B) is overly restrictive. Maximizing functionality (C) increases risk. Open- source extensions (D) improve transparency but do not inherently control excessive agency. Scope limitation is the most targeted and effective mitigation.
References:
ISACA, AAIA Exam Content Outline - Domain 1: Governance, AI Autonomy, and Risk Controls.

NEW QUESTION # 151
After AI training data has been tested for biases, which of the following is MOST important to check to validate the effectiveness of the testing?

- A. AI processes will meet expected service turnaround time
- B. Feedback on data validation is obtained from key stakeholders
- C. Possible impacts from AI outputs remain within the acceptable risk level
- D. Sensitive information from users is securely masked before input

Answer: C

Explanation:
Even after identifying and mitigating bias, organizations must ensure that AI outputs do not create unacceptable risks.
AAIA emphasizes that bias mitigation must result in:
* Fair outcomes
* Justifiable predictions
* No disproportionate harm to any demographic group
* Alignment with organizational risk tolerance
Option B reflects this requirement, ensuring that the model's real-world impact aligns with documented risk thresholds.
Option A is supportive but not validation of effectiveness.
Option C is performance-related, not fairness-related.
Option D is privacy-related, not bias-related.
Thus, confirming output impacts against risk tolerance is the most important validation step.
References:
AAIA Domain 5: Ethical AI, Fairness Validation
AAIA Domain 1: Risk Governance and Threshold Assessments

NEW QUESTION # 152
An IS auditor is auditing a financial system in which a generative AI tool is used to identify trends in batches of 4,000 rows, while the generative AI tool has a limit of 3,000 tokens. Which of the following is the GREATEST concern?

- A. The AI output will be biased toward the first 3,000 tokens.
- B. The AI will reject the data set and not analyze the data.
- C. The AI will prioritize high-value entries.
- D. The AI will process only a portion of the data set.

Answer: A

Explanation:
Generative AI tools such as large language models often have token limitations that restrict how much input they can process in a single prompt. According to the AAIA™ Study Guide, when input exceeds token limits, the model processes only the initial portion-leading to biased outputs based on early entries.
"Token limits in generative AI systems may lead to partial input processing, skewing model outputs toward the beginning of the data and introducing interpretive bias. Auditors must assess whether output reflects the full dataset." Options A and C describe side effects, but D identifies the most significant risk-output distortion due to truncated input.
Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Operations and Performance," Subsection: "Limitations of Generative AI Models"

NEW QUESTION # 153
Which of the following is the MOST effective way an IS auditor could use generative AI to plan an audit of a new database storing transactional data?

- A. Identifying technology-specific risk and considerations
- B. Identifying separation of duties conflicts for database data changes
- C. Developing architecture diagrams
- D. Summarizing meeting transcripts from interviews with database administrators (DBAs)

Answer: A

Explanation:
Generative AI excels at synthesizing large datasets and technical documentation into understandable insights.
The AAIA™ Study Guide recommends leveraging generative AI to identify domain-specific risks and control considerations by analyzing complex environments and correlating them with industry risk patterns.

"AI can assist auditors during planning by generating tailored risk profiles for technologies under review, helping prioritize audit focus and scoping." While summarizing interviews (D) and creating diagrams (B) are helpful, only C directly informs audit planning with actionable intelligence. A (separation of duties) is a later-stage control assessment.
Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI in Audit Processes," Subsection: "Generative AI Use in Planning and Scoping"

NEW QUESTION # 154
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