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Question 1 (Introduction to Artificial Intelligence) [20]

- 1.1 Describe the standard model general paradigm in artificial intelligence. (6)
- 1.2 Describe the first work, which is now generally recognized as AI, that took place in 1943. (4)
- 1.3 Describe the difference between the "gorilla problem" and the "King Midas problem" regarding future AI risks. (5)
- 1.4 Describe the difference between the standard Turing test and the total Turing test, including the additional capabilities required for the latter. (5)

Question 2 (Solving Problems by Searching) [40]

- 2.1 Define the following terms: (2)
 - (a) Model (2)
 - (b) Abstraction (3)
 - (c) Valid abstraction (3)
 - (d) Useful abstraction (2)
- 2.2 Explain the fundamental difference between a problem's state space and a search tree. (5)
- 2.3 When executing a breadth-first search (BFS) on a large problem, why is space complexity generally considered a more critical limitation than time complexity? (5)
- 2.4 Traverse the following graph from the starting point A to goal C according to the iterative deepening depth-first search method. Draw the search tree for each iteration and show your steps clearly. Mark the sequence in which the nodes are visited. Use the alphabetical order of the nodes to determine the order in which successor nodes are examined. You can assume that your algorithm avoids cycles by not re-visiting previously inspected nodes. (20)

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EC-COUNCIL Certified AI Program Manager Sample Questions (Q81-Q86):

NEW QUESTION # 81

An AI capability is introduced into a customer service operation with the goal of improving efficiency. Rather than rethinking how work is performed end to end, the existing workflow remains largely untouched, and automation is layered onto a single task late in the process. The lack of holistic process redesign leads to operational friction, user confusion, and only marginal performance gains. Which integration approach describes how the AI was implemented in this scenario?

- A. Human-Led Collaboration
- B. Supervised Autonomy
- C. Bolt-on Approach
- D. Transformational Redesign

Answer: C

Explanation:

The scenario clearly reflects a situation where AI has been introduced without fundamentally rethinking or redesigning the underlying business process. Instead, automation is applied narrowly to a specific task within an otherwise unchanged workflow. This is a textbook example of the Bolt-on Approach as defined in CAIPM.

In CAIPM, integration approaches describe how AI is embedded into business operations. The Bolt-on Approach involves adding AI capabilities on top of existing systems or processes without reengineering them end-to-end. While this method is often quicker to implement and requires less upfront change management, it typically results in limited value realization. This is because inefficiencies in the broader process remain unaddressed, and the AI solution operates in isolation rather than as part of an optimized workflow.

The scenario explicitly mentions key symptoms of bolt-on implementation: operational friction, user confusion, and marginal performance gains. These outcomes occur because the AI solution does not align with the overall process flow or user experience.

In contrast:

Transformational Redesign would involve rethinking the entire workflow to maximize AI-driven value.

Human-Led Collaboration focuses on structured human-AI interaction across tasks.

Supervised Autonomy involves AI performing tasks independently under human oversight.

Therefore, the correct answer is Bolt-on Approach, as the AI was simply layered onto an existing process without holistic redesign, limiting its effectiveness.

NEW QUESTION # 82

Tech Flow Dynamics has completed an enterprise-wide AI readiness assessment using standardized surveys. While the quantitative scores indicate moderate readiness, acting as the Assessment Lead, you find that the numbers alone do not explain the specific resistance coming from the Operations unit. To resolve this, you conduct semi-structured discussions with frontline managers and systematically cross-reference their specific feedback against the broader quantitative scores to verify if the reported issues are consistent. According to the interview framework, which specific process are you applying to ensure your final conclusions are accurate and patterns are confirmed?

- A. Synthesize themes and triangulate with survey data
- B. Use semi-structured format
- C. Segmenting results by role and tenure
- D. Benchmarking against industry standards

Answer: A

Explanation:

In the CAIPM readiness assessment methodology, combining quantitative and qualitative insights is essential to produce reliable and actionable conclusions. The process described in this scenario goes beyond simply collecting interview data—it focuses on validating findings by comparing multiple data sources, which is known as triangulation.

The Assessment Lead conducts semi-structured interviews to gather deeper qualitative insights and then cross-references this information with existing survey results. This step ensures that observed patterns are not isolated opinions but are consistent across both qualitative feedback and quantitative metrics. This is precisely what CAIPM refers to as synthesizing themes and triangulating with survey data.

Option B (Use semi-structured format) describes the interview method, not the validation process. Option A (Benchmarking) involves external comparisons, which are not mentioned. Option D (Segmentation) refers to analyzing data by categories, but does not address validation across data sources.

CAIPM emphasizes triangulation as a critical step in maturity assessments because it improves accuracy, reduces bias, and

strengthens confidence in conclusions by confirming that multiple sources point to the same insights.

Therefore, the correct answer is Synthesize themes and triangulate with survey data, as it best describes the process of validating and confirming patterns across qualitative and quantitative inputs.

NEW QUESTION # 83

Audrey is the Chief Legal Officer for a multinational software corporation. As the company prepares to launch a high-risk AI application globally, Audrey advises the board to prioritize a specific regional framework as the foundation for their internal compliance program. She argues that because this framework represents the most comprehensive, risk-based standard currently in existence, adhering to it will likely satisfy the core requirements of other regional regulations the company must navigate. Which specific regulatory framework is Audrey referencing as the most comprehensive standard influencing global compliance?

- A. OECD AI Principles
- B. Singapore FEAT
- C. NIST AI RMF
- D. EU AI Act

Answer: D

Explanation:

The correct answer is B. EU AI Act. EC-Council's CAIPM materials position AI program management around governance, risk, compliance, and safe enterprise-scale adoption. The official CAIPM brochure states that learners must "apply governance, compliance, and ethical frameworks across AI programs" and develop "program-level controls" for responsible deployment. In that context, the EU AI Act is the strongest match because it is the most prominent binding, risk-based regulatory framework among the options listed.

The European Commission describes the AI Act as a framework that "sets out risk-based rules for AI developers and deployers regarding specific uses of AI," and explains that it introduces a clear approach based on different levels of risk. That makes it directly aligned to the scenario, which involves a high-risk AI application and a multinational organization seeking a foundational compliance baseline. EC-Council's own governance comparison article further characterizes the EU AI Act as moving the market from voluntary guidance to enforceable obligations and identifies it as a risk-based regime with concrete obligations for high-risk systems. By contrast, OECD AI Principles and NIST AI RMF are influential but primarily guidance-oriented rather than a directly enforceable law, and Singapore FEAT is narrower and sector/context specific. Therefore, for a global enterprise wanting the most comprehensive compliance anchor, the best answer is EU AI Act.

NEW QUESTION # 84

A Chief Technology Officer (CTO) at AeroGuard Defense, a military aerospace contractor, is selecting a Generative AI platform for a critical three-year project. The immediate requirement is to deploy rapidly on public cloud infrastructure to demonstrate value. However, the corporate security roadmap mandates that all AI workloads handling classified technical data must migrate to an air-gapped, on-premises data center within 18 months. The CTO needs a platform that supports this transition without requiring a change in the underlying model provider. Which specific "Enterprise Factor" is the CTO prioritizing to ensure this roadmap is feasible?

- A. Fine-tuning options
- B. Model hosting flexibility
- C. Rate limits and pricing
- D. SLA and support levels

Answer: B

Explanation:

The key requirement in this scenario is the ability to deploy across different environments (cloud → air-gapped on-prem) without changing the underlying model provider. This directly points to model hosting flexibility.

Model hosting flexibility enables:

Deployment across public cloud, private cloud, and on-prem environments Migration between environments without re-architecting or switching vendors Support for air-gapped or secure environments, which is critical in defense and regulated industries This ensures long-term viability of the platform under evolving security and compliance constraints.

Why other options are incorrect:

Fine-tuning options: Focus on model customization, not deployment portability SLA and support levels: Concern uptime and vendor support, not architectural flexibility Rate limits and pricing: Relate to usage constraints and cost, not deployment strategy The CTO is prioritizing the ability to start fast in the cloud and later securely transition to on-prem infrastructure, which is precisely addressed by

model hosting flexibility.

Therefore, the correct answer is Model hosting flexibility.

NEW QUESTION # 85

Following the deployment of an updated AI model into a production environment, several dependent systems report functional inconsistencies that affect planned operations. No compliance or security breach is identified, but continuity of service becomes a priority while the issue is investigated. Leadership requires that operations revert quickly to a previously stable state, without initiating new training or reconstruction, and that all model states remain fully traceable for audit and reproducibility. As part of AI operations oversight, you must determine which lifecycle control enables this response. Which AI lifecycle capability most directly enables this response under operational time constraints?

- A. Enforcing controlled promotion paths across development, test, and production stages
- B. Standardizing model metadata to support comparison across releases
- C. Redirecting production execution to a prior validated model state
- D. Preserving lineage records that link models, data versions, and configurations

Answer: C

Explanation:

The scenario emphasizes the need for immediate recovery of system stability in a production environment without retraining or rebuilding the model. This is a classic requirement for rollback capability, where operations can quickly revert to a previously validated and stable model version.

The correct lifecycle capability is redirecting production execution to a prior validated model state, which enables:

Rapid restoration of service continuity

Minimal operational disruption

Avoidance of time-consuming retraining or debugging during critical operations Use of pre-approved, previously tested model versions This capability is a core component of mature AI operations (MLOps), ensuring that organizations can manage risks associated with model updates.

Other options, while important, do not directly address the immediate need:

Controlled promotion paths ensure governance during deployment but do not enable instant rollback Standardized metadata supports comparison and analysis but not real-time recovery Lineage records ensure traceability and auditability but do not provide operational rollback capability Although traceability is mentioned in the scenario, the primary requirement is fast recovery to a stable state, which is only achieved through rollback or version switching.

Therefore, the correct answer is Redirecting production execution to a prior validated model state, as it directly enables rapid recovery under operational constraints while maintaining governance and traceability.

NEW QUESTION # 86

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