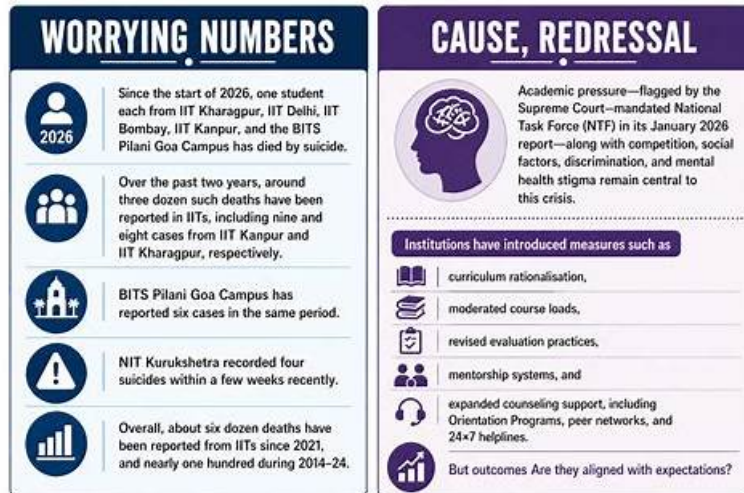


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ISQI ISTQB Certified Tester Testing with Generative AI (CT-GenAI) v1.0 Sample Questions (Q17-Q22):

NEW QUESTION # 17

What is a key data-related aspect when defining a GenAI strategy for testing?

- A. Use only auto-generated synthetic data to avoid dependency on enterprise repositories
- **B. Prioritize accurate and relevant input data secured through defined quality procedures**
- C. Neglect legacy data sources as they provide limited immediate relevance to testing tasks
- D. Aggregate data from all available organizational repositories without filtration

Answer: B

Explanation:

A successful Generative AI strategy for testing is heavily dependent on the quality of the data used for grounding (RAG) and prompting. The principle of "Garbage In, Garbage Out" is magnified with LLMs; therefore, a key strategic pillar is the prioritization of accurate, relevant, and high-quality input data. This involves establishing defined quality procedures to ensure that the requirements, codebases, and historical defect logs fed into the model are "clean" and representative of the current system state.

Strategy must avoid the "unfiltered" approach (Option C), as including contradictory or obsolete data can lead to hallucinations or irrelevant test cases. While synthetic data (Option D) is a powerful tool for privacy, it cannot entirely replace the nuanced reality found in secured enterprise data. Furthermore, legacy data (Option A) often contains valuable insights for regression testing. Consequently, the strategy should focus on building a robust data pipeline that ensures only verified, contextually appropriate information is utilized, thereby increasing the reliability of AI-generated testware and ensuring it aligns with the organization's quality standards.

NEW QUESTION # 18

Which competency MOST helps testers steer LLMs to produce useful, on-policy testware?

- A. Configuring network routers
- **B. Mastering prompt engineering**
- C. Writing low-level device drivers
- D. Designing custom CPU instructions

Answer: B

Explanation:

As Generative AI becomes integrated into the software testing lifecycle, the role of the tester shifts from manual authoring to the "orchestration" of AI models. Mastering prompt engineering is the primary competency required to effectively steer LLMs. Prompt engineering involves the deliberate design of inputs- incorporating roles, context, instructions, and constraints-to elicit the most accurate and "on-policy" outputs from the model. In a testing context, "on-policy" refers to testware that adheres to organizational standards, security protocols, and specific project requirements. While technical skills like network configuration or low-level programming (Options B, C, and D) are valuable in specific engineering domains, they do not directly influence the communicative interface between the human and the AI. A tester proficient in prompt engineering can utilize techniques like "Chain-of-Thought" or "Few-shot prompting" to ensure the LLM understands the nuances of a test plan, thereby reducing hallucinations and ensuring the generated test cases are actionable, relevant, and compliant with the project's quality gates.

NEW QUESTION # 19

What are the three key phases in adopting GenAI in a test organization?

- **A. Discovery; initiation and usage definition; utilization and iteration**
- B. Planning; execution; sign-off
- C. Prototype; pilot; decommission
- D. Training; certification; outsourcing

Answer: A

Explanation:

According to the strategic frameworks for AI adoption (as detailed in the CT-GenAI and related ISO/IEC 42001 standards), the journey toward organizational AI maturity follows three primary phases. The Discovery phase involves identifying potential use cases, assessing current technical readiness, and understanding the legal/risk landscape. The Initiation and Usage Definition phase is where the organization sets the "ground rules"-defining which tools are approved, establishing system prompts, creating prompt libraries, and training the staff on prompt engineering. This phase transitions the AI from a novelty into a structured capability. Finally, the Utilization and Iteration phase is the ongoing process where GenAI is used in daily testing activities, and its outputs are constantly monitored, measured, and improved through feedback loops.

This ensures the strategy remains dynamic and adapts to new model capabilities or changing project requirements. Options B, C, and D represent standard project management or IT lifecycles but do not capture the specific "learning and refinement" nature required for successful Generative AI integration in a testing department.

NEW QUESTION # 20

What distinguishes an LLM-powered agent from a basic AI chatbot in test processes?

- **A. Ability to trigger automated actions beyond conversation**
- B. Reliance on predefined templates to generate short, factual answers
- C. Ability to respond to prompts without explicit user instructions
- D. Use of a conversational tone and improved response personalization

Answer: A

Explanation:

While a basic chatbot is primarily designed for textual interaction and information retrieval, an LLM-powered agent (or AI Agent) is characterized by its agency—the ability to use tools and trigger actions in the external world. In a software testing context, an agent does not just "talk" about testing; it can actually perform testing tasks. For example, an agent could be given the goal to "verify the login module," and it would independently decide to call an API, generate a test script, execute it against a test environment, and then analyze the results to report a bug in Jira. This ability to trigger automated actions (Option C) through "function calling" or tool integration is what makes agents far more powerful than simple conversational interfaces (Option D). Agents can reason about "how" to achieve a goal, selecting the appropriate tools (like Selenium, Postman, or specialized internal utilities) to complete the task. This moves the AI from being a passive advisor to an active participant in the test automation ecosystem, requiring testers to focus more on goal definition and result validation.

NEW QUESTION # 21

Who typically defines the system prompt in a testing workflow?

- **A. A tester configuring the assistant**
- B. End user during normal chat use
- C. CI server automatically without human input
- D. Product owner in user stories only

Answer: A

Explanation:

In professional Generative AI applications, the system prompt (sometimes called the system message) is the foundational set of instructions that defines the AI's persona, boundaries, and overall behavior. In a testing workflow, this is typically defined by a tester or test engineer who is configuring the AI assistant for a specific project. Unlike the user prompt, which changes with every interaction, the system prompt remains relatively static and acts as a "guardrail" to ensure the model stays in its role (e.g., "You are an expert in ISO 26262 automotive testing standards"). By defining the system prompt, the tester ensures that the model consistently uses specific terminology, adheres to data privacy constraints, and formats its output according to the team's requirements. While end users (Option B) provide the task-specific input, they do not usually have the permissions or technical need to alter the underlying system-level instructions. Similarly, while CI servers (Option C) might trigger the prompt, they do not "define" the human-centric logic contained within it.

Properly crafting the system prompt is a core part of setting up an AI-augmented test environment.

NEW QUESTION # 22

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