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## ISQI ISTQB Certified Tester Testing with Generative AI (CT-GenAI) v1.0 Sample Questions (Q12-Q17):

### NEW QUESTION # 12

Which AI approach requires feature engineering and structured data preparation?

- A. Symbolic AI
- **B. Classical Machine Learning**
- C. Deep Learning
- D. Generative AI

**Answer: B**

Explanation:

Classical Machine Learning (which includes algorithms like Random Forests, Support Vector Machines, and Linear Regression) is characterized by its reliance on Feature Engineering. This is the process where human experts manually select, extract, and transform raw data into a set of "features" or variables that the algorithm can process. For instance, in a classical ML model predicting software defects, a tester might have to manually define features like "lines of code changed" or "number of previous bugs." In contrast, Deep Learning and its subset, Generative AI (Options B and D), utilize "Representation Learning." This means the multi-layered neural networks automatically identify and extract the relevant features from raw, often unstructured data (like text or images) without explicit human instruction. Symbolic AI (Option A) is based on hard-coded logical rules rather than data-driven learning. Understanding this distinction is fundamental for testers, as it determines the level of data preparation required: Classical ML requires high human effort in data structuring, while GenAI requires high effort in prompt engineering and grounding.

### NEW QUESTION # 13

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

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

**Answer: D**

### NEW QUESTION # 14

Which statement BEST differentiates an LLM-powered test infrastructure from a traditional chatbot system used in testing?

- A. It focuses primarily on visual dashboards and user navigation features
- B. It provides fixed responses from predefined rule sets and scripts
- C. It produces scripted conversational responses similar to traditional bots
- **D. It dynamically generates test insights using contextual information**

**Answer: D**

Explanation:

The primary differentiator between an LLM-powered test infrastructure and a traditional chatbot is the move from "deterministic" to "probabilistic" logic. Traditional chatbots (Option D) rely on "if-then" logic, decision trees, and predefined scripts. They can only respond to queries that match specific keywords or patterns mapped in their database. In contrast, an LLM-powered infrastructure utilizes the generative capabilities of Large Language Models to synthesize and create new content based on context. This allows it to dynamically generate test insights (Option A)—such as predicting potential regression risks based on unstructured code diffs or drafting test cases for a brand-new feature described in natural language. While traditional bots provide fixed, scripted responses (Option B), LLMs can "reason" through multi-step testing problems and provide nuanced explanations. This contextual awareness is powered by the model's training on vast amounts of technical documentation, enabling it to assist in exploratory testing and complex analysis that traditional, rule-based systems simply cannot handle.

### NEW QUESTION # 15

You are tasked with applying structured prompting to perform impact analysis on recent code changes. Which of the following improvements would BEST align the prompt with structured prompt engineering best practices for comprehensive impact analysis?

- A. Specify that the role is a test architect specializing in CI/CD pipelines.
- B. Include references to version control systems like Git in the constraints.
- **C. Include mapping code changes to affected modules, identifying test cases, prioritizing by risk level and change complexity**
- D. Add a step to review the change log for syntax errors before analysis.

**Answer: C**

Explanation:

The most effective way to improve an LLM's performance on complex tasks like impact analysis is to provide a detailed, multi-step Instruction or Chain-of-Thought structure. Option D is the best improvement because it breaks the "impact analysis" task into logical sub-tasks: mapping changes to modules, identifying related test cases, and prioritizing them based on risk and complexity. This structured approach guides the LLM through the "reasoning" steps a human expert would take, significantly reducing the likelihood of a superficial or incorrect analysis. While specifying a specialized role (Option B) or adding technical references (Option A) can help set the tone, they do not provide the model with the logical framework required to execute the task accurately. By explicitly defining the process the LLM should follow, the tester ensures that the model evaluates the "depth" of the change rather than just listing files. This results in a more robust and actionable regression test suite, which is the primary goal of impact analysis in a modern software development lifecycle.

#### NEW QUESTION # 16

What BEST protects sensitive test data at rest and in transit?

- A. Use public file shares with read-only links
- B. Disable TLS and rely on VPN only
- C. Rely on obfuscation instead of encryption
- **D. Enforce role-based access controls**

**Answer: D**

Explanation:

Data security is a paramount concern when using GenAI in testing, as test environments often contain sensitive business logic or PII (Personally Identifiable Information). To protect this data "at rest" (stored in databases or vector stores) and "in transit" (being sent to the LLM), a combination of technical controls is required. Role-Based Access Control (RBAC) is a fundamental security pillar that ensures only authorized individuals or services can access specific datasets or trigger GenAI workflows. This prevents unauthorized users from feeding sensitive enterprise data into public AI models. While encryption (omitted in Option A as an alternative to obfuscation) and TLS (falsely suggested to be disabled in Option C) are essential technical layers for protecting data in transit, RBAC provides the organizational "gatekeeping" necessary to manage who can interact with the AI system. In a professional GenAI strategy, testers must ensure that the tools they use adhere to strict access policies, ensuring that the "Input Data" used for prompting remains within the secured organizational boundary and is not leaked to unauthorized entities or public training sets.

#### NEW QUESTION # 17

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