

Quiz 2026 ISQI CT-GenAI: Useful ISTQB Certified Tester Testing with Generative AI (CT-GenAI) v1.0 Pass4sure Dumps Pdf



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ISQI ISTQB Certified Tester Testing with Generative AI (CT-GenAI) v1.0 Sample Questions (Q33-Q38):

NEW QUESTION # 33

What does an embedding represent in an LLM?

- A. A set of test cases for validation
- B. Numerical vectors capturing semantic relationships
- C. Tokens grouped into context windows
- D. Logical rules for reasoning

Answer: B

Explanation:

Embeddings are a fundamental concept in modern Natural Language Processing (NLP) and LLMs. They are high-dimensional numerical vectors—essentially lists of numbers—that represent the meaning (semantics) of a piece of text (a word, sentence, or document). Unlike traditional keyword matching, which looks for identical strings of characters, embeddings allow the model to

understand the "closeness" of concepts. For example, in a vector space, the word "bug" would be mathematically closer to "defect" or "error" than to "feature" or "requirement." This captures the semantic relationship between terms. This technology is the backbone of Retrieval-Augmented Generation (RAG) used in testing: when a tester queries a documentation set, the system converts the query into an embedding and looks for other chunks of text with similar vector values. This allows the AI to retrieve relevant context even if the exact keywords do not match. It is not about logical rules (Option C) or groups of tokens (Option A), but rather a mathematical representation of language that enables machines to process human meaning.

NEW QUESTION # 34

Which factor MOST influences the overall energy consumption of a Generative AI model used in software testing tasks?

- A. The location of the data center determines model bias and accuracy levels
- B. The duration of user sessions primarily affects latency but not power efficiency
- C. The number of tokens processed directly determines the carbon intensity of each query
- D. The type of cloud platform affects processing speed but not total energy draw

Answer: C

Explanation:

The environmental impact and sustainability of AI are increasingly important considerations in software engineering. The overall energy consumption of an LLM during inference (when the model is actually being used by a tester) is most directly influenced by the number of tokens processed. Every token generated or analyzed requires a massive amount of floating-point operations within the GPU clusters of a data center.

Therefore, the "length" of the input prompt and the "length" of the AI's response are the primary drivers of the power draw and, consequently, the carbon intensity of the query. This is a crucial concept for "Green AI" initiatives in testing; more efficient prompting—such as avoiding unnecessarily verbose context or limiting output lengths—can lead to more sustainable testing practices. While data center location (Option B) affects the type of energy used (renewable vs. fossil fuel), it does not determine the model's accuracy. Similarly, while cloud platforms (Option D) and session durations (Option C) play roles in operational logistics, the mathematical workload tied to token count remains the fundamental unit of energy expenditure in Generative AI.

NEW QUESTION # 35

Which statement about data privacy risks in GenAI-assisted testing is INCORRECT?

- A. Some GenAI tools may store/process data without explicit consent
- B. GenAI outputs can accidentally reveal sensitive information present in inputs
- C. Strict GDPR compliance eliminates all privacy risk
- D. Using GenAI without regulatory compliance can lead to legal exposure

Answer: C

Explanation:

The statement that "Strict GDPR compliance eliminates all privacy risk" is incorrect because compliance is a legal and procedural framework, not a foolproof technical shield against all possible risks. Even within a GDPR-compliant environment, risks such as "model inversion" attacks, accidental data leakage through

"membership inference," or the unintentional generation of Sensitive Personally Identifiable Information (SPII) can still occur. Data privacy in GenAI is complex because LLMs function by processing and sometimes retaining patterns from the data they are fed. As noted in the CT-GenAI syllabus, some tools may process data in ways that are not fully transparent (Option A), and outputs can inadvertently include snippets of sensitive data used during the prompting or training phase (Option B). Furthermore, failing to adhere to regulations like GDPR or the EU AI Act certainly leads to legal and financial exposure (Option D). Therefore, while compliance frameworks significantly mitigate risk, they do not "eliminate" it; a robust GenAI strategy requires ongoing technical controls, data masking, and human oversight to manage residual privacy threats effectively.

NEW QUESTION # 36

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

- A. Ability to trigger automated actions beyond conversation
- B. Use of a conversational tone and improved response personalization

- C. Reliance on predefined templates to generate short, factual answers
- D. Ability to respond to prompts without explicit user instructions

Answer: A

NEW QUESTION # 37

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. Add a step to review the change log for syntax errors before analysis.
- 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. Specify that the role is a test architect specializing in CI/CD pipelines.

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 # 38

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