

100% Pass 2026 CT-GenAI: ISTQB Certified Tester Testing with Generative AI (CT-GenAI) v1.0–The Best Dumps Cost



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ISQI CT-GenAI Exam Syllabus Topics:

Section	Weight	Objectives
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Testing Activities for Generative AI	30%	- Model and Output Evaluation
		• 1. Metamorphic testing • 2. Checkpoint testing • 3. Output correctness and quality assessment • 4. Automated evaluation methods • 5. Human evaluation methods
		- Prompt-Based Testing
		• 1. Test data creation with GenAI • 2. Prompt engineering basics • 3. Test case design using prompts
		- Requirements-Based Testing
Tools for Testing Generative AI	20%	• 1. AI-related quality requirements • 2. Non-functional requirements for AI-based systems • 3. Functional requirements for AI-based systems
		- Traceability and Documentation
		• 1. Documentation requirements for AI testing • 2. Test coverage of AI model components
		- Testing Tools Overview
		• 1. Categories of GenAI testing tools • 2. Selecting appropriate tools for specific testing needs
Fundamentals of Generative AI	20%	- Using Tools for Common Testing Activities
		• 1. Model evaluation tools • 2. Prompt testing tools • 3. Security testing tools • 4. Simulation and monitoring tools
		- AI Development Lifecycle
		• 1. Deployment and monitoring • 2. Data collection, preparation, and curation • 3. Evaluation • 4. Model training and fine-tuning
		- AI Terminology
		• 1. Transformer architecture • 2. Deep Learning • 3. Artificial Intelligence (AI) • 4. Generative AI (GenAI) • 5. Machine Learning (ML) • 6. Tokens and prompts • 7. Large Language Models (LLMs)
		- Generative AI Concepts
		• 1. AI model behavior • 2. Training data and context windows • 3. Hallucinations • 4. Alignment and guardrails • 5. Model types (Base, Instruction-tuned, RAG) • 6. Emergent capabilities and limitations

- Testing Challenges for Generative AI

- 1. Complexity of the AI component
- 2. Ethical testing concerns
- 3. Test oracle problem
- 4. Subjectivity of quality assessment
- 5. Regulatory and compliance considerations
- 6. Non-deterministic output behavior
- 7. Coverage challenges

Risks and Testing Challenges for Generative AI 30%

- Quality Risks Specific to Generative AI

- 1. Inappropriate output for the context
- 2. Dependency on external components
- 3. Offensive, harmful, or biased content
- 4. Incorrect or fabricated outputs (hallucinations)
- 5. Inconsistent responses across runs
- 6. Input sensitivity (prompt brittleness)

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ISQI ISTQB Certified Tester Testing with Generative AI (CT-GenAI) v1.0 Sample Questions (Q19-Q24):

NEW QUESTION # 19

Which technique MOST directly reduces hallucinations by grounding the model in project realities?

- A. Rely on generic examples only
- B. Use longer temperature settings
- C. Randomize prompts each run
- **D. Provide detailed context**

Answer: D

Explanation:

Hallucinations-where an LLM generates factually incorrect or nonsensical information-occur primarily when the model lacks sufficient specific information and "fills in the gaps" using probabilistic patterns from its training data. The most effective mitigation strategy is "grounding," which involves providing the model with detailed, project-specific context. By including technical specifications, existing API schemas, business rules, and identified constraints within the prompt, the tester restricts the model's operational space to the "project realities." This ensures the model does not have to guess or improvise details about the System Under Test (SUT). In contrast, randomizing prompts (Option B) or relying on generic examples (Option C) increases the likelihood of inconsistent and inaccurate outputs. Furthermore, using "longer" or higher temperature settings (Option D) actually encourages creativity and randomness, which is the opposite of the precision required for testing and significantly increases the risk of hallucinations. Therefore, rich contextual grounding is the technical foundation for reliable AI-assisted test analysis.

NEW QUESTION # 20

Which statement about fine-tuning for test tasks is INCORRECT?

- A. It replaces the model's general knowledge entirely and prevents overfitting
- B. It can be applied to smaller SLMs to improve task performance with lower compute
- C. It enhances relevance to organizational terminology and formats
- D. It adapts a pre-trained model to a domain using task-specific data

Answer: A

Explanation:

The statement that fine-tuning "replaces the model's general knowledge entirely" is incorrect. Fine-tuning is a process of "incremental learning" where a pre-trained model (which already possesses vast general knowledge) is further trained on a smaller, domain-specific dataset-such as an organization's internal API documentation or historical test scripts. The goal is to adjust the model's internal weights so that it becomes more proficient in a specific area (Option A) and adheres better to local terminology and formatting standards (Option C). It does not erase the foundational language capabilities of the model. Furthermore, fine-tuning is a common strategy for Small Language Models (SLMs) to allow them to punch above their weight class in specific tasks while remaining computationally efficient (Option D). However, if done poorly, fine-tuning can actually cause overfitting (where the model becomes too rigid and loses its ability to generalize), rather than preventing it. Therefore, fine-tuning should be viewed as a "specialization" layer rather than a total replacement of the model's base intelligence.

NEW QUESTION # 21

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

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

Answer: B

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 # 22

A prompt section states: "Web checkout module v3.2; focus on coupon application; existing regression suite IDs T-112-T-150; recent defect ID BUG-431." Which component is this?

- A. Constraints
- B. Input data
- C. Instruction
- D. Output format

Answer: B

Explanation:

In a structured prompt, "Input Data" (or Reference Data) provides the specific subject matter that the model must process or analyze. The statement provided consists of factual identifiers and specific entities related to the System Under Test (SUT), such as the version number, the specific module name, reference IDs for existing tests, and a specific defect record. These elements serve as the raw material for the LLM's task. This differs from "Instructions" (Option C), which would be the command (e.g., "Analyze the following..."), or

"Constraints" (Option B), which would define the boundaries of the task (e.g., "Do not include T-115").

"Output Format" (Option D) would define how the result should look (e.g., "Provide a JSON list"). By clearly labeling this section as

Input Data, the tester helps the model distinguish between the "what" (the data) and the "how" (the instructions), which is a key principle of structured prompt engineering aimed at improving the accuracy of AI-generated analysis.

NEW QUESTION # 23

What is a primary compliance concern related to Shadow AI in organizational test environments?

- **A. Violation of established data handling and regulatory compliance standards**
- B. Automated compliance validation during AI tool deployment
- C. Difficulty in aligning project milestones with business outcomes
- D. Failure to update system documentation within the test process

Answer: A

Explanation:

Shadow AI refers to the use of artificial intelligence tools and services within an organization without explicit approval or oversight from the IT or Security departments. In a software testing environment, this often occurs when testers use public, consumer-grade LLMs to analyze proprietary code or sensitive requirement documents to speed up their work. The primary compliance concern is the violation of established data handling and regulatory compliance standards (such as GDPR, HIPAA, or SOC2). When sensitive test data is fed into a "shadow" AI tool, that data may be stored on external servers or used to train future iterations of the model, leading to massive data leaks and legal exposure. This bypasses the organization's security controls, such as data masking and role-based access. Unlike "authorized" AI which undergoes a rigorous vendor risk assessment, Shadow AI creates an invisible attack surface. For a test organization, mitigating this risk involves providing approved, secure AI alternatives and implementing strict policies and monitoring to ensure that internal intellectual property is never processed by unvetted external services.

NEW QUESTION # 24

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