

Free PDF Quiz Unparalleled GH-300 - Test GitHub Copilot Collection



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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Domain 6: Testing with GitHub Copilot: This section measures abilities of QA Engineers and Test Automation Specialists to use Copilot for test generation, including unit and integration tests. It explains how Copilot can identify edge cases and assist in writing assertions. The domain also covers different Copilot subscription SKUs, privacy considerations, organizational code suggestion settings, and configuration files related to Copilot.
Topic 2	<ul style="list-style-type: none"> Developer Use Cases for AI: Targeting Software Engineers and Technical Leads, this domain elaborates on how AI improves developer productivity across common tasks like learning new languages, translation, documentation, debugging, data science, and refactoring. It discusses Copilot's support in software development lifecycle management and highlights its limitations. Use of the productivity API to track Copilot's impact is also included.
Topic 3	<ul style="list-style-type: none"> Domain 4: Prompt Crafting and Prompt Engineering This section measures skills of Software Developers and AI Interaction Designers in effectively crafting prompts to optimize Copilot's output. It reviews foundational concepts such as prompt components, the role of language in prompting, zero-shot vs. few-shot prompting, and how chat history influences responses. Best practices and engineering principles for prompt design and training methods are also covered.

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Microsoft GitHub Copilot Sample Questions (Q49-Q54):

NEW QUESTION # 49

How can GitHub Copilot be limited when it comes to suggesting unit tests?

- A. GitHub Copilot's limitations in generating unit tests can vary based on the IDE version you are using.
- **B. GitHub Copilot primarily suggests basic unit tests that focus on core functionalities, often requiring additional input from developers for comprehensive coverage.**
- C. GitHub Copilot can generate all types of unit tests, including those for edge cases and complex integration scenarios.
- D. GitHub Copilot can handle any complexity in code and automatically generate appropriate unit tests.

Answer: B

Explanation:

GitHub Copilot often suggests basic unit tests and may not cover all edge cases or complex integration scenarios, requiring developers to supplement its suggestions.

Reference: GitHub Copilot testing limitations.

NEW QUESTION # 50

How does GitHub Copilot Chat ensure that a function works correctly?

- A. By automatically writing all the tests for the function.
- B. By writing the implementation code for the function.
- **C. By suggesting assertions based on the code's context and semantics.**
- D. By executing the test cases to validate the correctness of the code.

Answer: C

Explanation:

GitHub Copilot Chat can suggest assertions based on the code's context and semantics to help developers verify the correctness of their functions. These assertions serve as checks that the function behaves as expected under various conditions.

NEW QUESTION # 51

When using an IDE with a supported GitHub Copilot plug-in, which Chat features can be accessed from within the IDE? (Each correct answer presents part of the solution. Choose two.)

- **A. Generate unit tests**
- B. Find out about releases and commits
- **C. Explain code and suggest improvements**
- D. Plan coding tasks

Answer: A,C

Explanation:

Exact extracts:

* "In supported IDEs, you can ask Copilot Chat to explain code or suggest improvements." References: GitHub Copilot Chat IDE integration documentation.

NEW QUESTION # 52

What is zero-shot prompting?

- A. Giving as little context to GitHub Copilot as possible
- B. Giving GitHub Copilot examples of the problem you want to solve
- C. Telling GitHub Copilot it needs to show only the correct answer
- D. Giving GitHub Copilot examples of the algorithm and outcome you want to use
- **E. Only giving GitHub Copilot a question as a prompt and no examples**

Answer: E

Explanation:

