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The print option of this format allows you to carry a hard copy with you at your leisure. We update our GitHub Copilot (GH-300) pdf format regularly so keep calm because you will always get updated GitHub Copilot (GH-300) questions. Lead2Passed offers authentic and up-to-date GitHub Copilot (GH-300) study material that every candidate can rely on for good preparation. Our top priority is to help you pass the GitHub Copilot (GH-300) exam on the first try.

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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details

Topic 1	<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.
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"> • GitHub Copilot Plans and Feature: This domain targets Product Managers and DevOps Engineers and focuses on understanding the various GitHub Copilot subscription plans like Individual, Business, and Enterprise, including distinctions and management features. It covers how Copilot is integrated into IDEs, different triggering methods for code suggestions, organizational policy management, subscription administration via API, and effective use of Copilot Chat and Knowledge Bases. Candidates also learn about CLI usage and configuration.
Topic 4	<ul style="list-style-type: none"> • Responsible :This section of the exam measures skills of AI Ethics Officers and Risk Managers and covers the responsible and ethical usage of AI technologies. It explains the risks and limitations associated with generative AI tools, including biases in training data and the need to validate AI outputs. Candidates learn how to operate AI responsibly by identifying potential harms such as bias, fairness, privacy concerns, and mitigating these harms by applying ethical AI principles.
Topic 5	<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.

Microsoft GitHub Copilot Sample Questions (Q53-Q58):

NEW QUESTION # 53

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 can handle any complexity in code and automatically generate appropriate unit tests.
- C. GitHub Copilot can generate all types of unit tests, including those for edge cases and complex integration scenarios.
- **D. GitHub Copilot primarily suggests basic unit tests that focus on core functionalities, often requiring additional input from developers for comprehensive coverage.**

Answer: D

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 # 54

What is the primary role of the /optimize slash command in Visual Studio?

- A. Automatically formats the code according to the selected style guide.
- B. Summarizes your documentation into more maintainable and readable formats.
- **C. Enhances the performance of the selected code by analyzing its runtime complexity.**
- D. Translates code into a more performant language.

Answer: C

Explanation:

The /optimize slash command in Visual Studio enhances the performance of the selected code by analyzing its runtime complexity and suggesting improvements.

NEW QUESTION # 55

When using GitHub Copilot Chat to generate unit tests, which slash command would you use?

- A. /tests
- B. /generate-tests
- C. /create-tests
- D. /init-tests

Answer: A

Explanation:

"/tests: Generate unit tests for the selected code or function."

This is the official description of the /tests slash command, confirming it is the command used to create unit tests.

References: GitHub Copilot Chat slash command reference.

NEW QUESTION # 56

Which of the following prompts can be used to guide GitHub Copilot Chat in refactoring code for quality improvements? (Each correct answer presents part of the solution. Choose two.)

- A. "Suggest ways to enhance the maintainability of this code segment."
- B. "Predict future coding trends and update my codebase accordingly."
- C. "Refactor my application to meet the latest coding standards."
- D. "Show me how to improve the readability of this function."

Answer: A,D

Explanation:

Effective prompts for refactoring include requests that focus on specific quality improvements, such as readability and maintainability. These prompts guide GitHub Copilot to provide relevant and actionable suggestions.

NEW QUESTION # 57

What GitHub Copilot configuration needs to be enabled to protect against IP infringements?

- A. Allowing license check configuration
- B. Blocking license check configuration
- C. Allowing public code matches
- D. Blocking public code matches

Answer: D

Explanation:

"By default, suggestions matching public code are allowed, but you can choose to block public code matches.

This setting can be enabled to reduce the risk of intellectual property infringement." This shows that enabling "Blocking public code matches" is the configuration required to protect against IP issues.

References: GitHub Copilot configuration settings documentation.

NEW QUESTION # 58

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