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### GitHub Copilot Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• <b>Developer Use Cases for AI:</b> This section of the exam measures skills of Full-Stack Developers and Cloud Engineers and covers how AI enhances developer productivity across various tasks such as learning new programming languages, debugging, writing documentation, and refactoring code. It discusses how GitHub Copilot integrates with the Software Development Lifecycle (SDLC) and its role in modernizing legacy applications. It also highlights the use of AI for personalized responses, sample data generation, and improving overall efficiency in software development.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Privacy Fundamentals and Context Exclusions:</b> This section of the exam measures skills of Cybersecurity Specialists and Compliance Officers and covers privacy safeguards and content exclusion settings in GitHub Copilot. It explains how Copilot can identify security vulnerabilities, suggest optimizations, and enforce secure coding practices. It also includes details on content ownership, data filtering mechanisms, and exclusion configurations. The section concludes with troubleshooting guidelines for managing context exclusions and ensuring compliance with organizational security policies.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Testing with GitHub Copilot:</b> This section of the exam measures skills of QA Engineers and Test Automation Specialists and covers AI-assisted testing methodologies, including the generation of unit tests, integration tests, and edge case detection. It explains how GitHub Copilot improves test effectiveness by suggesting relevant assertions and boilerplate test cases. The section also discusses privacy considerations, organizational code suggestion settings, and best practices for configuring GitHub Copilot's testing features.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Prompt Engineering:</b> This section of the exam measures skills of AI Engineers and Software Developers and covers the fundamentals of prompt engineering, including key principles, techniques, and best practices for generating high-quality outputs. It explains different prompting strategies such as zero-shot and few-shot prompting, how context influences AI-generated responses, and the role of structured prompts in guiding Copilot's behavior. It also discusses the prompt lifecycle and ways to enhance model performance through refined input instructions.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Responsible AI:</b> This section of the exam measures the skills of AI Ethics Analysts and AI Developers and covers the principles of responsible AI usage, the risks associated with AI, and the limitations of generative AI tools. It includes the importance of validating AI-generated outputs and operating AI systems responsibly. It also explores potential harms such as bias, privacy concerns, and fairness issues, along with methods to mitigate these risks. The ethical considerations of AI development and deployment are also discussed.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>• <b>How GitHub Copilot Works and Handles Data:</b> This section of the exam measures the skills of Data Security Specialists and DevOps Engineers and covers how GitHub Copilot processes data, handles code suggestions and manages privacy concerns. It explains the data pipeline for Copilot's suggestions, how it gathers context, and how prompts are processed through its AI model. The section also discusses the limitations of AI-generated code, the effects of historical data on suggestions, and the role of prompt crafting. Best practices for improving prompt effectiveness and optimizing AI-generated responses are included.</li> </ul>

## GitHub Copilot Certification Exam Sample Questions (Q66-Q71):

### NEW QUESTION # 66

How can GitHub Copilot assist developers during the requirements analysis phase of the Software Development Life Cycle (SDLC)?

- A. By identifying and fixing potential requirement conflicts when using /help.
- **B. By providing templates and code snippets that help in documenting requirements.**
- C. By managing stakeholder communication and meetings.
- D. By automatically generating detailed requirements documents.

**Answer: B**

Explanation:

GitHub Copilot can assist during the requirements analysis phase by providing templates and code snippets that aid in documenting requirements. This helps streamline the process of capturing and organizing project requirements.

### NEW QUESTION # 67

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

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

**Answer: A**

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 # 68

Which of the following GitHub Copilot Business related activities can be tracked using the organization audit logs?

- A. Code suggestions made by GitHub Copilot
- B. Suggestions blocked by duplication detection filtering
- C. Accepted chat suggestions
- D. Changes to content exclusion settings

**Answer: D**

Explanation:

Organization audit logs track changes to content exclusion settings, providing administrators with visibility into configuration changes.

### NEW QUESTION # 69

How long does it take content exclusion to add or be updated?

- A. 60 - 90 minutes
- B. 24 hours
- C. 45 - 60 minutes
- D. Up to 30 minutes

**Answer: D**

Explanation:

Content exclusions typically take up to 30 minutes to be added or updated.

### NEW QUESTION # 70

What is the correct way to exclude specific files from being used by GitHub Copilot Business during code suggestions?

- A. Add the specific files to a copilot.ignore file.
- B. Use the GitHub Copilot settings in the user interface to exclude files.
- C. Rename the files to include the suffix \_no\_copilot.
- D. Modify the .gitignore file to include the specific files.

**Answer: B**

Explanation:

The correct way to exclude files is through the GitHub Copilot settings in the user interface, which allows administrators to specify files and directories to be ignored.

### NEW QUESTION # 71

