

## **Github Copilot Certification Exam Questions**

### **1. Select a strategy to increase the performance of GitHub Copilot Chat.**

- A) Use a single GitHub Copilot Chat query to find resolutions for the collection of technical requirements
- B) Limit the number of concurrent users accessing GitHub Copilot Chat
- C) Apply prompt engineering techniques to be more specific
- D) Optimize the usage of memory-intensive operations within generated

### **2. What caution should developers exercise when using GitHub Copilot for assistance with mathematical computation?**

- A) GitHub Copilot's ability to execute and verify mathematical results in real-time.
- B) GitHub Copilot's reliance on pattern-based responses without verifying computation accuracy.
- C) GitHub Copilot's automatic update of outdated mathematical formulas to modern standards.
- D) GitHub Copilot's capability to optimize complex mathematical algorithms beyond manual coding.

### **3. What do you check when GitHub Copilot content exclusions are not working? (Each correct answer presents part of the solution. Choose two)**

- A) If the user is in an organization that has content exclusions configured.
- B) If the content exclusion settings changed in the last 30 minutes or before that.
- C) If GitHub Copilot can connect to the server selected in your user settings.
- D) If the user is part of the content exclusion team that limits the use of content exclusions.

### **4. A social media manager wants to use AI to filter content. How can they promote transparency in the platform's AI operations?**

- A) By providing clear explanations about the types of content the AI is designed to filter and how it arrives at its conclusion.
- B) By focusing on user satisfaction with the content filtering.
- C) By regularly updating the AI filtering algorithm.
- D) By relying on a well-regarded AI development company.

### **5. What role does the pre-processing of user input play in the data flow of GitHub Copilot Chat?**

- A) It enriches the input prompt with additional context before passing it to the language model.
- B) It directly generates a response based on the user's input prompt.
- C) It filters out irrelevant information from the user's input prompt.
- D) It formats the output response before presenting it to the user.

**6. Which Copilot Enterprise features are available in all commercially supported IDEs?**

- A) Inline suggestions
- B) Chat
- C) Knowledge bases
- D) Pull request summaries

**7. How does GitHub Copilot typically handle code suggestions that involve deprecated features or syntax of programming languages?**

- A) GitHub Copilot always filters out deprecated elements to promote the use of current standards.
- B) GitHub Copilot may suggest deprecated syntax or features if they are present in its training data.
- C) GitHub Copilot automatically updates deprecated features in its suggestions to the latest version.
- D) GitHub Copilot rejects all prompts involving deprecated features to avoid compilation errors.

**8. What is used by GitHub Copilot in the IDE to determine the prompt context?**

- A) All the code in the current repository and any git submodules.
- B) All the code visible in the current IDE.
- C) The open tabs in the IDE and the current folder of the terminal.
- D) Information from the IDE like open tabs, cursor location, selected code.

**9. Which of the following are true about code suggestions? (Each correct answer presents part of the solution. Choose two.)**

- A) Alternative code suggestions can be shown in a new tab
- B) You can use keyboard shortcuts to accept the next word in a suggestion
- C) Code suggestions will always compile or run without modifications
- D) Code suggestions are guaranteed to not expose known security vulnerabilities
- E) Code suggestions are limited to single-line suggestions

**10. What types of content can GitHub Copilot Knowledge Base answer questions about? (Each correct answer presents part of the solution. Choose three.)**

- A) Code snippets
- B) Screenshots
- C) Documentation
- D) Design patterns
- E) Compiled binaries

**11. What reasons could apply if code suggestions are not working in your editor? (Select three.)**

- A) You do not have an active internet connection
- B) Your programming language is not supported
- C) Your content exclusion is active and blocks the use of GitHub Copilot
- D) You do not have a valid GitHub Copilot license
- E) You are working in files included in your .gitignore

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

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

**13. How does GitHub Copilot identify matching code and ensure that public code is appropriately handled or blocked? (Each correct answer presents part of the solution. Choose two.)**

- A) Filtering out suggestions that match code from public repositories
- B) Using machine learning models trained only on private repositories
- C) Implementing safeguards to detect and avoid suggesting verbatim snippets from public code
- D) Reviewing and storing user-specific private repository data for future suggestions

**14. 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) Explain code and suggest improvements
- C) Plan coding tasks
- D) Find out about releases and commits

**15. What are the potential limitations of GitHub Copilot Chat? (Each correct answer presents part of the solution. Choose two.)**

- A) Limited training data
- B) Ability to handle complex code structures
- C) No biases in code suggestions
- D) Extensive support for all programming languages

**16. What is a likely effect of GitHub Copilot being trained on commonly used code patterns?**

- A) Suggest homogeneous solutions if provided a diverse data set.
- B) Suggest innovative coding solutions that are not yet popular.
- C) Suggest code snippets that reflect the most common practices in the training data.
- D) Suggest completely novel projects, while reducing time on a project.

**17. If you are working on open-source projects, GitHub Copilot Individual can be paid:**

- A) Based on the payment method in your user profile
- B) Through an invoice or a credit card
- C) Through an Azure Subscription
- D) N/A - Copilot Individual is a free service for all open-source projects

**18. A team is using GitHub Copilot Individual in their daily development activities. They need to exclude specific files from being used to inform code completion suggestions.**

- A) Upgrade to Copilot Business
- B) Have a repo administrator configure content exclusions
- C) Have an organization owner configure content exclusions
- D) Use the #file Chat variable to exclude the files
- E) Add a .gitignore file to the repo

**19. What is the best way to share feedback about GitHub Copilot Chat when using it on GitHub Mobile?**

- A) The Settings menu in the GitHub Mobile app.
- B) The feedback section on the GitHub website.
- C) Use the emojis in the Copilot Chat interface.
- D) Tweeting at GitHub's official X (previously known as Twitter) account.

**20. What are the additional checks that need to pass before the GitHub Copilot responses are submitted to the user? (Each correct answer presents part of the solution. Choose two.)**

- A) Code quality
- B) Performance benchmarking
- C) Suggestions matching public code (optional based on settings)
- D) Compatibility with user-specific settings

**21. How can GitHub Copilot assist in maintaining consistency across your tests?**

- A) By identifying a pattern in the way you write tests and suggesting similar patterns for future tests.
- B) By automatically fixing all tests in the code based on the context.
- C) By writing the implementation code for the function based on context.
- D) By providing documentation references based on industry best practices.

**22. When crafting prompts for GitHub Copilot, what is a recommended strategy to enhance the relevance of the generated code?**

- A) Write the prompt in natural language without any programming language.
- B) Provide examples of expected input and output within the prompt.
- C) Keep the prompt as short as possible, using single words or brief phrases.
- D) Avoid mentioning the programming language to allow for more flexible suggestions.

**23. What kind of insights can the GitHub Copilot usage metrics API provide to help evaluate the effectiveness of GitHub Copilot? (Each correct answer presents part of the solution. Choose two.)**

- A) The API can generate detailed reports on code quality improvements made by GitHub Copilot.
- B) The API can track the number of code suggestions accepted and used in the organization.
- C) The API can refactor your code to improve productivity.
- D) The API can provide feedback on coding style and standards compliance.
- E) The API can provide Copilot Chat specific suggestions acceptance metrics.

**24. How do you generate code suggestions with GitHub Copilot in the CLI?**

- A) Write code comments → Press the suggestion shortcut → Select the best suggestion from the list.
- B) Use `gh copilot suggest` → Write the command you want → Select the best suggestion from the list.
- C) Type out the code snippet → Use the `copilot refine` command to enhance it → Review the suggested command.
- D) Describe the project's architecture → Use the `copilot generate` command → Accept the generated suggestion.

**25. Why is it important to ensure the security of the code used in Generative AI (Gen AI) tools?**

- A) Ensuring code security maintains the integrity of the AI system.
- B) Ensuring code security prevents unauthorized access and potential data breaches.
- C) Ensuring code security supports the development of more advanced AI features.
- D) Ensuring code security enables the AI system to handle larger datasets effectively.

**26. Which GitHub Copilot pricing plans include features that exclude your GitHub Copilot data like usage, prompts, and suggestions from default training GitHub Copilot? (Choose two)**

- A) GitHub Copilot Individual
- B) GitHub Copilot Business
- C) GitHub Copilot Enterprise
- D) GitHub Copilot Codespace

**27. When using GitHub Copilot Chat to generate boilerplate code for various test types, how can you guide the AI to follow the testing standards of your company?**

- A) By using a specific slash command in the prompt.
- B) By using specific prompt examples in your chat request.
- C) By using a specific command in the terminal.
- D) By using a specific setting in GitHub Copilot's configuration.

**28. Which of the following does GitHub Copilot's LLM derive context from when producing a response?**

- A) Neighboring or related files within a project
- B) Version control system integrated with the IDE
- C) Frequency of commits to the repository
- D) Syntax highlighting scheme of the code in the IDE

**29. Which of the following steps correctly demonstrates how to establish an organization-wide policy for GitHub Copilot Business to restrict its use to certain repositories?**

- A) Create a copilot.policy file in each repository
- B) Configure the policies in the organization settings
- C) Create a copilot.policy in the .github repository
- D) Apply policies through the GitHub Actions configuration

**30. What is zero-shot prompting?**

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

**31. How does GitHub Copilot assist developers in reducing the amount of manual boilerplate code they write?**

- A) By refactoring the entire codebase to eliminate boilerplate code without developer input.
- B) By predicting future coding requirements and pre-emptively generating boilerplate code.
- C) By suggesting code snippets that can be reused across different parts of the project.
- D) By engaging in real-time collaboration with multiple developers to write boilerplate code.

**32. What is the primary purpose of organization audit logs in GitHub Copilot Business?**

- A) To track the number of lines of code suggested by Copilot
- B) To monitor administrator activities and actions within the organization
- C) To monitor code conflicts across repositories
- D) To assign software licenses within the organization

**33. How can users provide feedback about GitHub Copilot Chat using their IDE?**

- A) By emailing the support team directly.
- B) Through the "Share Feedback" button in the Copilot Chat panel.
- C) By posting on the GitHub forums.
- D) By filling out a feedback form on the GitHub website.

**34. How can the insights gained from the metrics API be used to improve the development process in conjunction with GitHub Copilot?**

- A) Insights on the types of coding languages where GitHub Copilot is most helpful.
- B) Real-time debugging and error resolution statistics.
- C) Detailed analysis of GitHub Copilot's suggestions vs. manual coding.
- D) Automated generation of complete project documentation.

**35. Which GitHub Copilot plan could an Azure DevOps organization use without requiring a GitHub Enterprise license?**

- A) GitHub Copilot Individual
- B) GitHub Copilot Enterprise
- C) GitHub Copilot for Azure DevOps
- D) Copilot Teams

**36. What is a benefit of using custom models in GitHub Copilot?**

- A) Responses are faster to produce and appear sooner
- B) Responses use practices and patterns in your repositories
- C) Responses use the organization's LLM engine
- D) Responses are guaranteed to be correct

**37. What is the main purpose of the duplication detection filter in GitHub Copilot?**

- A) To encourage the user to follow coding best practices preventing code duplication.
- B) To compare user-generated code against a private repository for potential matches.
- C) To allow administrators to control which suggestions are visible to developers based on custom criteria.
- D) To detect and block suggestions that match public code snippets on GitHub if they contain about 150 characters.

**38. What can be done during AI development to minimize bias?**

- A) Focus on accuracy of the data.
- B) Collect massive amounts of data for training.
- C) Use diverse data, fairness metrics, and human oversight.
- D) Improve on the computational efficiency and speed.

**39. Which of the following statements correctly describes how GitHub Copilot Individual uses prompt data? (Each correct answer presents part of the solution. Choose two.)**

- A) Prompt data is used to train machine learning models for better code suggestions.
- B) Prompt data is used internally by GitHub for improving the search engine.
- C) Real-time user input helps generate context-aware code suggestions.
- D) Prompt data is stored unencrypted for faster processing.

**40. What are the potential limitations of GitHub Copilot in maintaining existing codebases?**

- A) GitHub Copilot can refactor and optimize the entire codebase up to 10,000 lines of code.
- B) GitHub Copilot might not fully understand the context and dependencies within a large codebase.
- C) GitHub Copilot can independently manage and resolve all merge conflicts in version control.
- D) GitHub Copilot's suggestions are always aware of the entire codebase.

**41. GitHub Copilot in the Command Line Interface (CLI) can be used to configure the following settings: (Each correct answer presents part of the solution. Choose two.)**

- A) The default execution confirmation
- B) Usage analytics
- C) The default editor
- D) GitHub CLI subcommands



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

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

**43. What content can be configured to be excluded with content exclusions? (Each correct answer presents part of the solution. Choose three.)**

- A) Lines in files
- B) Files
- C) Folders
- D) Repositories
- E) Gists

**44. Where can you validate if GitHub Copilot is not returning suggestions because of content exclusions?**

- A) The GitHub Copilot logs on GitHub.com under your user settings
- B) The GitHub Copilot icon in the status bar of the editor will display a message
- C) The GitHub Copilot errors panel in your IDE
- D) The code suggestions window will display a warning message

**45. Are there any limitations to consider when using GitHub Copilot for code refactoring?**

- A) GitHub Copilot always produces bug-free code during refactoring.
- B) GitHub Copilot understands the context of your entire project and refactors code accordingly.
- C) GitHub Copilot can only be used with a limited set of programming languages.
- D) GitHub Copilot may not always produce optimized or best-practice code for refactoring.

**46. Identify the steps involved in the life cycle of a GitHub Copilot code suggestion? (Each correct presents part of the solution. Choose two.)**

- A) Processing telemetry data
- B) Capturing the user's context
- C) Storing user data
- D) Retraining the model
- E) Generate suggestions

**47. Which scenarios can GitHub Copilot Chat be used to increase productivity? (Each correct answer presents part of the solution. Choose two.)**

- A) A developer is added to a new project and would like to understand the current software code.
- B) A project plan for the team needs to be generated using project management software.
- C) Fast tracking of release management activities to move code to the production main branch.
- D) Create a documentation file for the newly created code base.

**48. What is the impact of the "Fill-In-the-Middle" (FIM) technique on GitHub Copilot's code suggestions?**

- A) Allows Copilot to generate suggestions based only on the prefix of the code.
- B) Ignores both the prefix and suffix of the code, focusing only on user comments for context.
- C) Improves suggestions by considering both the prefix and suffix of the code, filling in the middle part more accurately.
- D) Restricts Copilot to use only external databases for generating code suggestions.

**49. What are the different ways to give context to GitHub Copilot to get more precise responses? (Each correct answer presents part of the solution. Choose two.)**

- A) Engage with chat participants such as @workspace to incorporate collaborative context into the responses.
- B) Utilize chat variables like #file and #editors to anchor the conversation within the specific context of the files or editors in use.
- C) Utilize to interpret developer's thoughts and intentions without any code or comments.
- D) Access developer's previous projects and code repositories to understand their coding style without explicit permission.

**50. How does GitHub Copilot Chat help to fix security issues in your codebase?**

- A) By annotating the given suggestions with known vulnerability patterns.
- B) By automatically refactoring the entire codebase to remove vulnerabilities.
- C) By enforcing strict coding standards that prevent the introduction of vulnerabilities.
- D) By providing detailed reports on the security vulnerabilities present in the codebase.

**51. In what ways can GitHub Copilot contribute to the design phase of the Software Development Life Cycle (SDLC)?**

- A) GitHub Copilot can independently create a complete software design.
- B) GitHub Copilot can suggest design patterns and best practices relevant to the project.
- C) GitHub Copilot can generate user interface (UI) prototypes without prompting.
- D) GitHub Copilot can manage design team collaboration and version control.

**52. Which Microsoft ethical AI principle is aimed at ensuring AI systems treat all people equally?**

- A) Privacy and Security
- B) Fairness
- C) Reliability and Safety
- D) Inclusiveness

**53. How does GitHub Copilot assist developers in minimizing context switching?**

- A) GitHub Copilot can automatically handle project management tasks.
- B) GitHub Copilot allows developers to stay in their IDE.
- C) GitHub Copilot can completely replace the need for human collaboration.
- D) GitHub Copilot can predict and prevent bugs before they occur.

**54. What is few-shot prompting?**

- A) Telling GitHub Copilot to try multiple times to answer the prompt.
- B) Telling GitHub Copilot to iterate several times on the answer before returning it to you.
- C) Telling GitHub Copilot about the mechanism you want it to use and how to incorporate that into the response.
- D) Telling GitHub Copilot from which sources it should base the response on.

**55. What type of information can you retrieve through GitHub Copilot Business Subscriptions via REST API? (Each correct answer presents part of the solution. Choose two.)**

- A) View code suggestions for a specific user
- B) List all GitHub Copilot seat assignments for an organization
- C) Get a summary of GitHub Copilot usage for organization members
- D) List of all unsubscribed GitHub Copilot members within an organization

**56. When using GitHub Copilot to identify missing tests in your codebase, which of the following is the most important factor to consider?**

- A) Ensuring that the correct context is available to GitHub Copilot.
- B) Close all the tabs in your IDE that do not have tests in them.
- C) Having a high-test coverage percentage in the codebase.
- D) Using well-known coding practices in your repository.

**57. In what ways can GitHub Copilot support a developer during the code refactoring process? (Each correct answer presents part of the solution. Choose two.)**

- A) By providing suggestions for improving code readability and maintainability based on best practices.
- B) By offering code transformation examples that enhance performance and reduce complexity.
- C) By autonomously refactoring entire codebases to the latest programming language.
- D) By independently ensuring compliance with regulatory standards across the codebase.

**58. What specific function does the /fix slash command perform?**

- A) Generates new code snippets based on language syntax and best practices.
- B) Initiates a code review with static analysis tools for security and logic errors.
- C) Proposes changes for detected issues, suggesting corrections for syntax errors and programming mistakes.
- D) Converts pseudocode into executable code, optimizing for readability and maintainability.

**59. What two options navigate to configure duplicate detection? (Each correct answer presents part of the solution. Choose two.)**

- A) Enterprise settings → Copilot → Policies
- B) Organization settings → Copilot → Policies
- C) Repository settings → Copilot → Policies
- D) User settings → Copilot → Policies

**60. What is a limitation of content exclusions?**

- A) Content exclusions can be worked around as it is only available for Git repositories.
- B) Content exclusions can only be configured by an enterprise administrator.
- C) Content exclusions are only available in the GitHub Copilot Individual plan.
- D) Repository administrators and organization owners cannot manage content exclusion settings.

**61. 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) Enhances the performance of the selected code by analyzing its runtime complexity.
- C) Summarizes your documentation into more maintainable and readable formats.
- D) Translates code into a more performant language.

**62. When can GitHub Copilot still use content that was excluded using content exclusion?**

- A) If the contents of an excluded file are referenced in code that is not excluded, for example, function calls.
- B) When the repository level settings allow overrides by the user.
- C) If the content exclusion was configured at the enterprise level and is overwritten at the organization level.
- D) When the user prompts with @workspace.

**Answers**

- |             |          |             |          |
|-------------|----------|-------------|----------|
| 1. C        | 17. D    | 33. B       | 49. A, B |
| 2. B        | 18. B    | 34. C       | 50. A    |
| 3. A, B     | 19. C    | 35. C       | 51. B    |
| 4. A        | 20. A, C | 36. B       | 52. B    |
| 5. A        | 21. A    | 37. D       | 53. B    |
| 6. A        | 22. B    | 38. C       | 54. C    |
| 7. B        | 23. B, E | 39. A, C    | 55. B, C |
| 8. D        | 24. B    | 40. B       | 56. A    |
| 9. A, B     | 25. B    | 41. A, B    | 57. A, B |
| 10. A, C, D | 26. B, C | 42. B       | 58. C    |
| 11. A, B, D | 27. B    | 43. B, C, D | 59. A, B |
| 12. B       | 28. A    | 44. B       | 60. B    |
| 13. A, C    | 29. B    | 45. D       | 61. B    |
| 14. A, B    | 30. C    | 46. B, E    | 62. A    |
| 15. A, B    | 31. C    | 47. A, D    |          |
| 16. C       | 32. B    | 48. C       |          |