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    c. GitHub Copilot's automatic update of outdated mathematical formulas to modern standards.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 Code suggestions are guaranteed to not expose known security vulnerabilities
    d. 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 a project management software.
    c. Fast tracking of release management activities to move code to 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

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 /optimizeslash 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.