Github Copilot Certification Questions

Domain 1: Responsible AI (7%)

1. **What is Responsible AI?**
    - A) AI that is always accurate
    - B) AI that adheres to ethical guidelines and principles
    - C) AI that is developed by large companies
    - D) AI that is open-source
2. **Which of the following is a key principle of Responsible AI?**
    - A) Profit maximization
    - B) Transparency
    - C) Speed of development
    - D) Proprietary algorithms
3. **Why is fairness important in AI?**
    - A) To ensure AI systems are profitable
    - B) To prevent bias and discrimination
    - C) To increase the speed of AI development
    - D) To reduce the cost of AI systems
4. **What does AI transparency involve?**
    - A) Making AI systems open-source
    - B) Explaining how AI decisions are made
    - C) Ensuring AI systems are fast
    - D) Keeping AI algorithms secret
5. **Which organization provides guidelines for Responsible AI?**
    - A) World Health Organization
    - B) OpenAI
    - C) IEEE
    - D) NASA
6. **What is the goal of AI accountability?**
    - A) To make AI systems faster
    - B) To ensure there is a clear responsibility for AI outcomes
    - C) To reduce the cost of AI systems
    - D) To make AI systems open-source

7. **Which of the following is a risk of not following Responsible AI principles?**
    - A) Increased profitability
    - B) Bias and discrimination
    - C) Faster development
    - D) Proprietary algorithms
8. **What is AI ethics concerned with?**
    - A) The speed of AI development
    - B) The moral implications of AI
    - C) The profitability of AI systems
    - D) The proprietary nature of AI algorithms
9. **Why is inclusivity important in AI development?**
    - A) To ensure AI systems are profitable
    - B) To prevent bias and ensure diverse perspectives
    - C) To increase the speed of AI development
    - D) To keep AI algorithms secret
10. **What is the role of human oversight in Responsible AI?**
    - A) To make AI systems faster
    - B) To ensure AI systems are used ethically and responsibly
    - C) To reduce the cost of AI systems
    - D) To make AI systems open-source

Domain 2: GitHub Copilot Plans and Features (31%)

11. **What is GitHub Copilot?**
    - A) A project management tool
    - B) An AI-powered code completion tool
    - C) A version control system
    - D) A bug tracking system
12. **Which AI model powers GitHub Copilot?**
    - A) GPT-3
    - B) BERT
    - C) T5
    - D) GPT-4

13. **What programming languages does GitHub Copilot support?**
    - A) Only Python
    - B) Only JavaScript
    - C) Multiple programming languages
    - D) Only Java
14. **How does GitHub Copilot provide code suggestions?**
    - A) By analyzing the entire internet
    - B) By using a large language model trained on public code
    - C) By using a fixed set of code snippets
    - D) By using a rule-based system
15. **Can GitHub Copilot be used for writing documentation?**
    - A) No, it only writes code
    - B) Yes, it can help write documentation
    - C) Only for Python documentation
    - D) Only for JavaScript documentation
16. **What is the main benefit of using GitHub Copilot?**
    - A) It makes code reviews unnecessary
    - B) It helps developers write code faster
    - C) It replaces the need for human developers
    - D) It makes projects open-source
17. **How does GitHub Copilot handle code context?**
    - A) It ignores the context
    - B) It uses the context of the current file and function
    - C) It only uses the context of the current line
    - D) It uses the context of the entire project
18. **What is the GitHub Copilot Labs feature?**
    - A) A feature for managing repositories
    - B) A feature for experimenting with new AI models
    - C) A feature for testing code
    - D) A feature for managing issues

19. **Can GitHub Copilot be used in Visual Studio Code?**
    - A) No, it only works in GitHub
    - B) Yes, it has an extension for Visual Studio Code
    - C) Only in the web version of Visual Studio Code
    - D) Only in the desktop version of Visual Studio Code
20. **What is the GitHub Copilot for Business plan?**
    - A) A free plan for individual developers
    - B) A paid plan for teams and organizations
    - C) A plan for open-source projects
    - D) A plan for educational institutions

Domain 3: How GitHub Copilot Works and Handles Data (15%)

21. **How does GitHub Copilot generate code suggestions?**
    - A) By using a rule-based system
    - B) By using a large language model trained on public code
    - C) By analyzing the entire internet
    - D) By using a fixed set of code snippets
22. **What type of data does GitHub Copilot use for training?**
    - A) Proprietary code
    - B) Publicly available code
    - C) Only Python code
    - D) Only JavaScript code
23. **How does GitHub Copilot ensure the privacy of user data?**
    - A) By storing all data locally
    - B) By not storing any user data
    - C) By anonymizing and aggregating data
    - D) By using encryption
24. **What is the role of the OpenAI Codex model in GitHub Copilot?**
    - A) It manages repositories
    - B) It generates code suggestions
    - C) It tracks issues
    - D) It handles pull requests

25. **How does GitHub Copilot handle sensitive information in code?**
    - A) It ignores sensitive information
    - B) It flags and removes sensitive information
    - C) It stores sensitive information securely
    - D) It encrypts sensitive information
26. **Can GitHub Copilot access private repositories?**
    - A) No, it only accesses public repositories
    - B) Yes, with user permission
    - C) Only for open-source projects
    - D) Only for educational institutions
27. **What is the purpose of the telemetry data collected by GitHub Copilot?**
    - A) To improve the AI model
    - B) To track user activity
    - C) To store user code
    - D) To manage repositories
28. **How does GitHub Copilot handle user feedback?**
    - A) It ignores user feedback
    - B) It uses feedback to improve suggestions
    - C) It stores feedback securely
    - D) It shares feedback with other users
29. **What is the main source of training data for GitHub Copilot?**
    - A) Proprietary code
    - B) Publicly available code
    - C) Only Python code
    - D) Only JavaScript code
30. **How does GitHub Copilot ensure the quality of code suggestions?**
    - A) By using a rule-based system
    - B) By using a large language model trained on high-quality code
    - C) By analyzing the entire internet
    - D) By using a fixed set of code snippets

Domain 4: Prompt Crafting and Prompt Engineering (9%)

31. **What is prompt engineering?**
    - A) The process of writing code
    - B) The process of designing and refining prompts for AI models
    - C) The process of managing repositories
    - D) The process of testing code
32. **Why is prompt crafting important for GitHub Copilot?**
    - A) To ensure code is written faster
    - B) To improve the accuracy and relevance of code suggestions
    - C) To reduce the cost of AI systems
    - D) To make projects open-source
33. **What is a good practice for crafting effective prompts?**
    - A) Using vague and general prompts
    - B) Using clear and specific prompts
    - C) Using long and complex prompts
    - D) Using short and ambiguous prompts
34. **How can you refine a prompt to get better code suggestions?**
    - A) By making the prompt more general
    - B) By making the prompt more specific
    - C) By making the prompt longer
    - D) By making the prompt shorter
35. **What is the role of context in prompt engineering?**
    - A) To ignore the context
    - B) To use the context to generate relevant suggestions
    - C) To store the context securely
    - D) To share the context with other users
36. **How can you provide context to GitHub Copilot in a prompt?**
    - A) By writing a detailed comment
    - B) By writing a vague comment
    - C) By writing a long comment
    - D) By writing a short comment

37. **What is a common mistake in prompt crafting?**
    - A) Using clear and specific prompts
    - B) Using vague and general prompts
    - C) Using short and ambiguous prompts
    - D) Using long and complex prompts
38. **How can you test the effectiveness of a prompt?**
    - A) By using the prompt in different contexts
    - B) By using the prompt in the same context
    - C) By using the prompt only once
    - D) By not using the prompt at all
39. **What is the benefit of using examples in prompts?**
    - A) To make the prompt more general
    - B) To provide clear guidance to the AI model
    - C) To make the prompt longer
    - D) To make the prompt shorter
40. **How can you improve a prompt that is not generating good suggestions?**
    - A) By making the prompt more general
    - B) By making the prompt more specific
    - C) By making the prompt longer
    - D) By making the prompt shorter

Domain 5: Developer Use Cases for AI (14%)

41. **What is a common use case for AI in software development?**
    - A) Managing repositories
    - B) Code completion and suggestions
    - C) Tracking issues
    - D) Handling pull requests
42. **How can AI help with code reviews?**
    - A) By replacing human reviewers
    - B) By providing automated code analysis and suggestions
    - C) By managing repositories
    - D) By tracking issues

43. **What is the benefit of using AI for bug detection?**
    - A) To reduce the cost of development
    - B) To identify and fix bugs faster
    - C) To make projects open-source
    - D) To manage repositories
44. **How can AI assist with documentation?**
    - A) By writing code
    - B) By generating and maintaining documentation
    - C) By managing repositories
    - D) By tracking issues
45. **What is a use case for AI in project management?**
    - A) Code completion and suggestions
    - B) Automated task assignment and tracking
    - C) Handling pull requests
    - D) Writing code
46. **How can AI help with testing?**
    - A) By writing code
    - B) By generating test cases and automating tests
    - C) By managing repositories
    - D) By tracking issues
47. **What is the role of AI in continuous integration and deployment (CI/CD)?**
    - A) Writing code
    - B) Automating build and deployment processes
    - C) Managing repositories
    - D) Tracking issues
48. **How can AI improve code quality?**
    - A) By writing code
    - B) By providing automated code analysis and suggestions
    - C) By managing repositories
    - D) By tracking issues

49. **What is a use case for AI in security?**
    - A) Writing code
    - B) Identifying and mitigating security vulnerabilities
    - C) Managing repositories
    - D) Tracking issues
50. **How can AI assist with code refactoring?**
    - A) By writing code
    - B) By providing suggestions for improving code structure and readability
    - C) By managing repositories
    - D) By tracking issues

Domain 6: Testing with GitHub Copilot (9%)

51. **How can GitHub Copilot assist with writing test cases?**
    - A) By managing repositories
    - B) By generating test cases based on code context
    - C) By tracking issues
    - D) By handling pull requests
52. **What is the benefit of using GitHub Copilot for testing?**
    - A) To reduce the cost of development
    - B) To generate test cases faster and more accurately
    - C) To make projects open-source
    - D) To manage repositories
53. **How does GitHub Copilot handle test data?**
    - A) It ignores test data
    - B) It generates test data based on code context
    - C) It stores test data securely
    - D) It shares test data with other users
54. **Can GitHub Copilot be used for unit testing?**
    - A) No, it only writes code
    - B) Yes, it can generate unit tests
    - C) Only for Python unit tests
    - D) Only for JavaScript unit tests

55. **What is the role of GitHub Copilot in integration testing?**
    - A) It manages repositories
    - B) It generates integration tests based on code context
    - C) It tracks issues
    - D) It handles pull requests
56. **How can GitHub Copilot help with test automation?**
    - A) By writing code
    - B) By generating and maintaining automated tests
    - C) By managing repositories
    - D) By tracking issues
57. **What is a common use case for GitHub Copilot in testing?**
    - A) Writing code
    - B) Generating test cases and test data
    - C) Managing repositories
    - D) Tracking issues
58. **How does GitHub Copilot ensure the quality of generated tests?**
    - A) By using a rule-based system
    - B) By using a large language model trained on high-quality code
    - C) By analyzing the entire internet
    - D) By using a fixed set of code snippets
59. **Can GitHub Copilot be used for end-to-end testing?**
    - A) No, it only writes code
    - B) Yes, it can generate end-to-end tests
    - C) Only for Python end-to-end tests
    - D) Only for JavaScript end-to-end tests
60. **What is the benefit of using GitHub Copilot for regression testing?**
    - A) To reduce the cost of development
    - B) To generate regression tests faster and more accurately
    - C) To make projects open-source
    - D) To manage repositories

Domain 7: Privacy Fundamentals and Context Exclusions (15%)

61. **What is the importance of privacy in AI?**
    - A) To increase the speed of AI development
    - B) To protect user data and ensure ethical use of AI
    - C) To reduce the cost of AI systems
    - D) To make AI systems open-source
62. **How does GitHub Copilot handle user data?**
    - A) By storing all data locally
    - B) By anonymizing and aggregating data
    - C) By not storing any user data
    - D) By using encryption
63. **What is context exclusion in GitHub Copilot?**
    - A) Ignoring the context of the current file
    - B) Excluding sensitive information from code suggestions
    - C) Storing the context securely
    - D) Sharing the context with other users
64. **Why is it important to exclude sensitive information from code suggestions?**
    - A) To increase the speed of AI development
    - B) To protect user privacy and prevent data leaks
    - C) To reduce the cost of AI systems
    - D) To make AI systems open-source
65. **How can developers ensure their code does not contain sensitive information?**
    - A) By using vague and general prompts
    - B) By reviewing and sanitizing their code
    - C) By making their code open-source
    - D) By using long and complex prompts
66. **What is the role of encryption in protecting user data?**
    - A) To increase the speed of AI development
    - B) To secure data and prevent unauthorized access
    - C) To reduce the cost of AI systems
    - D) To make AI systems open-source

67. **How does GitHub Copilot ensure the privacy of code suggestions?**

- A) By storing all suggestions locally
- B) By anonymizing and aggregating data
- C) By not storing any suggestions
- D) By using encryption

Answers

1. B	19. B	37. B	55. B
2. B	20. B	38. A	56. B
3. B	21. B	39. B	57. B
4. B	22. B	40. B	58. B
5. C	23. C	41. B	59. B
6. B	24. B	42. B	60. B
7. B	25. B	43. B	61. B
8. B	26. B	44. B	62. B
9. B	27. A	45. B	63. B
10. B	28. B	46. B	64. B
11. B	29. B	47. B	65. B
12. D	30. B	48. B	66. B
13. C	31. B	49. B	67. B
14. B	32. B	50. B	
15. B	33. B	51. B	
16. B	34. B	52. B	
17. B	35. B	53. B	
18. B	36. A	54. B	

Refer this Github Copilot chat for Explanation for Each question

Link : https://github.com/copilot/share/42174388-0a80-8887-b853-c04864ec28a9