Github copilot Questions by Github Copilot

Domain 1: Responsible AI (7%)

1. **What is Responsible AI?**
   a) AI that is always correct
   b) AI that adheres to ethical guidelines and fairness
   c) AI that operates without human intervention
   d) AI that is focused only on profitability

2. **Which principle is critical for Responsible AI?**
   a) Bias elimination
   b) High profitability
   c) Market dominance
   d) Speed of computation

3. **Responsible AI ensures AI models are:**
   a) Biased towards a particular group
   b) Transparent and explainable
   c) Hidden from users
   d) Only used in entertainment

4. **Which of the following is not a component of Responsible AI?**
   a) Fairness
   b) Accountability
   c) Transparency
   d) Exclusivity

5. **Responsible AI practices require:**
   a) Ignoring privacy concerns
   b) Continuous monitoring and updating
   c) Keeping the models static
   d) Reducing model accuracy for speed

6. **Why is fairness important in AI?**
   a) To ensure AI is profitable
   b) To avoid bias and discrimination
   c) To make AI faster
   d) To limit AI usage

7. **What role does transparency play in Responsible AI?**
   a) It hides the AI's decision-making process
   b) It ensures decisions are understandable
   c) It increases complexity
   d) It decreases trust

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

1. **What is GitHub Copilot primarily used for?**
   a) Project management
   b) AI-powered code completion
   c) Bug tracking
   d) Version control

2. **Which IDEs support GitHub Copilot?**
   a) Only Visual Studio Code
   b) Visual Studio Code, Visual Studio, and JetBrains IDEs
   c) Only IntelliJ IDEA
   d) Only Eclipse

3. **How does GitHub Copilot suggest code?**
   a) By using predefined templates
   b) By analyzing the context of your code and using machine learning models
   c) By searching through Stack Overflow posts
   d) By randomly generating code snippets

4. **Which programming languages are supported by GitHub Copilot?**
   a) Only Python and JavaScript
   b) Multiple languages including Python, JavaScript, and TypeScript
   c) Only Java and C++
   d) Only Ruby and PHP

5. **What feature allows GitHub Copilot to offer context-aware code suggestions?**
   a) Static analysis
   b) Machine learning models
   c) Manual coding
   d) Hardcoding suggestions

6. **GitHub Copilot can be used in:**
   a) Only personal projects
   b) Both personal and professional projects
   c) Only open-source projects
   d) Only closed-source projects

7. **How can users provide feedback on GitHub Copilot's suggestions?**
   a) By modifying the source code
   b) By accepting or rejecting suggestions and providing feedback
   c) By emailing support
   d) By ignoring the suggestions

8. **Which subscription plans include GitHub Copilot?**
   a) Free plan only
   b) Pro, Team, and Enterprise plans
   c) Only Enterprise plan
   d) Only Pro plan

9. **What is the primary benefit of using GitHub Copilot?**
   a) Reducing code quality
   b) Accelerating coding by generating code snippets
   c) Making coding harder
   d) Increasing debugging time

10. **GitHub Copilot helps developers by:**
    a) Writing entire projects automatically
    b) Providing context-based code suggestions and completions
    c) Debugging code
    d) Managing version control

11. **Which of the following is not a feature of GitHub Copilot?**
    a) Code completion
    b) Code review
    c) Contextual suggestions
    d) Documentation generation

12. **GitHub Copilot can generate:**
    a) Only comments
    b) Code snippets, comments, and documentation
    c) Only function names
    d) Only variable names

13. **GitHub Copilot's suggestions are based on:**
    a) A fixed set of rules
    b) Machine learning models trained on public code
    c) Random guesses
    d) User's previous projects

14. **Can GitHub Copilot be used for pair programming?**
    a) Yes, it can assist in pair programming sessions
    b) No, it is only for solo developers
    c) Yes, but only in specific IDEs
    d) No, it does not support collaborative coding

15. **What is not required to use GitHub Copilot?**
    a) An active GitHub account
    b) A supported editor or IDE
    c) A Copilot subscription
    d) A specific operating system

16. **How often does GitHub update Copilot's models?**
    a) Weekly
    b) Periodically, based on improvements and feedback
    c) Monthly
    d) Never

17. **GitHub Copilot can help with:**
    a) Writing tests
    b) Code refactoring
    c) Both writing tests and code refactoring
    d) Only documentation

18. **Which organization developed GitHub Copilot?**
    a) Microsoft
    b) OpenAI in collaboration with GitHub
    c) Google
    d) Facebook

19. **What is the primary goal of GitHub Copilot?**
    a) To replace developers
    b) To assist developers by providing code suggestions
    c) To manage projects
    d) To debug code

20. **How can a developer disable GitHub Copilot for a specific project?**
    a) By uninstalling the plugin
    b) By disabling it in the project settings
    c) By not writing any code
    d) By deleting their GitHub account

21. **What should a developer do if they encounter a bug in GitHub Copilot?**
    a) Ignore it
    b) Report it through the feedback option in the editor
    c) Fix it themselves
    d) Stop using Copilot

22. **GitHub Copilot can be customized by:**
    a) Modifying its source code
    b) Adjusting settings in the editor
    c) Changing the machine learning model
    d) Requesting changes from GitHub

23. **How does GitHub Copilot handle deprecated functions?**
    a) It suggests using deprecated functions
    b) It avoids suggesting deprecated functions and offers alternatives
    c) It ignores deprecated functions
    d) It marks them as errors

24. **GitHub Copilot's code suggestions are based on:**
    a) Publicly available code and user data
    b) Private user data only
    c) Random algorithms
    d) Code snippets from paid services

25. **Which command can be used to accept GitHub Copilot's suggestion in Visual Studio Code?**
    a) Tab
    b) Ctrl+Enter
    c) Shift+Tab
    d) Ctrl+Shift+S

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

1. **What type of model does GitHub Copilot use?**
    a) Decision trees
    b) Neural networks
    c) Support vector machines
    d) K-nearest neighbors

2. **GitHub Copilot's model was trained using:**
    a) GitHub's entire private repository data
    b) Public code repositories and other open-source projects
    c) Data from social media
    d) Proprietary algorithms only

3. **How does GitHub Copilot ensure the privacy of user's code?**
    a) By anonymizing and aggregating data
    b) By sharing it with third parties
    c) By storing it in unprotected servers
    d) By ignoring privacy concerns

4. **What action can users take if they do not want their code to be used for training GitHub Copilot models?**
    a) They can opt out of data sharing
    b) They cannot take any action
    c) They can delete their repositories
    d) They can stop using GitHub

5. **How frequently is the data used by GitHub Copilot updated?**
    a) Daily
    b) Periodically, based on new public code contributions
    c) Never
    d) Every hour

6. **What is the primary source of data for training GitHub Copilot?**
    a) Proprietary datasets
    b) Publicly available code repositories
    c) User's private code
    d) Encrypted data from various sources

7. **GitHub Copilot handles user data by:**
    a) Storing it indefinitely
    b) Using it to improve suggestions and then deleting it
    c) Sharing it with other users
    d) Ignoring user data

8. **Can users review how their data is used by GitHub Copilot?**
   a) Yes, through GitHub's privacy policy and settings
   b) No, it is not transparent
   c) Only by contacting support
   d) Only by reading code

9. **GitHub Copilot's suggestions are generated by:**
   a) Manually curated code snippets
   b) Machine learning models analyzing the context of the code
   c) Random text generation
   d) Predefined templates

10. **How does GitHub Copilot handle sensitive information in code?**
    a) It anonymizes and encrypts all sensitive data
    b) It does not identify sensitive information
    c) It automatically removes sensitive data
    d) It stores sensitive data for future use

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

1. **What is prompt engineering in the context of GitHub Copilot?**
   a) Writing prompts for user surveys
   b) Crafting inputs to get desired code suggestions from Copilot
   c) Designing UI prompts
   d) Debugging code

2. **Effective prompt crafting involves:**
   a) Writing vague descriptions
   b) Providing clear and specific instructions
   c) Using only generic terms
   d) Ignoring the context

3. **What is a common practice to improve GitHub Copilot's suggestions?**
   a) Using long and complex prompts
   b) Using clear, concise, and context-rich prompts
   c) Rewriting code manually
   d) Avoiding comments

4. **Why is context important in prompt crafting for GitHub Copilot?**
   a) It helps Copilot generate relevant and accurate suggestions
   b) It makes the code longer
   c) It confuses the AI
   d) It is not important

5. **Which of the following is an example of a good prompt for GitHub Copilot?**
   a) "Write some code."
   b) "Create a function that sorts an array of integers in ascending order."
   c) "Do something."
   d) "Generate random text."

6. **What should be included in a prompt to get the best results from GitHub Copilot?**
   a) Specific task description and relevant context
   b) Only the task description
   c) Irrelevant information
   d) Random code snippets

7. **How can a developer improve the quality of code suggestions from GitHub Copilot?**
   a) By refining the prompt with more details and context
   b) By using Copilot without any prompts
   c) By ignoring Copilot's suggestions
   d) By disabling Copilot

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

1. **Which developer task can AI, like GitHub Copilot, assist with?**
   a) Writing documentation
   b) Generating code snippets
   c) Debugging code
   d) All of the above

2. **AI tools like GitHub Copilot are beneficial for:**
   a) Reducing time spent on repetitive coding tasks
   b) Replacing developers
   c) Increasing coding errors
   d) Making coding harder

3. **How can AI assist in code reviews?**
   a) By automatically accepting all code
   b) By identifying potential issues and suggesting improvements
   c) By ignoring the code
   d) By replacing the reviewer

4. **Which of the following is a use case for AI in software development?**
   a) Code generation
   b) Test case creation
   c) Code refactoring
   d) All of the above

5. **AI can help developers by:**
   a) Writing entire applications without any input
   b) Providing suggestions and automating repetitive tasks
   c) Ignoring user input
   d) Increasing the workload

6. **What is an example of AI improving developer productivity?**
   a) Writing boilerplate code automatically
   b) Making developers write more code
   c) Removing all comments
   d) Ignoring best practices

7. **AI-driven code suggestions are useful for:**
   a) Experienced developers only
   b) Both novice and experienced developers
   c) Only for specific languages
   d) Non-developers

Domain 6: Testing with GitHub Copilot (9%)

1. **How can GitHub Copilot assist with testing?**
   a) By generating test cases based on code
   b) By ignoring tests
   c) By deleting existing tests
   d) By writing incorrect tests

2. **What is a benefit of using GitHub Copilot for writing tests?**
   a) Increased test coverage
   b) Decreased accuracy
   c) Slower development process
   d) Ignoring edge cases

3. **GitHub Copilot can help in testing by:**
   a) Generating boilerplate test code
   b) Ignoring test frameworks
   c) Removing existing tests
   d) Adding bugs to the code

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

1. **What is a key aspect of privacy when using AI tools like GitHub Copilot?**
   a) Sharing all code with third parties
   b) Protecting user data and ensuring it is not misused
   c) Ignoring user privacy
   d) Storing data indefinitely

Answers

1. b	4. b	14. a	24. a	9. b	2. a
2. a	5. b	15. d	25. a	10. a	3. b
3. b	6. b	16. b	1. b	1. b	4. d
4. d	7. b	17. c	2. b	2. b	5. b
5. b	8. b	18. b	3. a	3. b	6. a
6. b	9. b	19. b	4. a	4. a	7. b
7. b	10. b	20. b	5. b	5. b	1. a
1. b	11. b	21. b	6. b	6. a	2. a
2. b	12. b	22. b	7. b	7. a	3. a
3. b	13. b	23. b	8. a	1. d	1. b