1. What is GitHub primarily used for?

   a) Web browsing

   b) Social networking

   c) Version control and collaboration

   d) Online gaming

2. Which version control system is GitHub built upon?

   a) Git

   b) Subversion

   c) Mercurial

   d) CVS

3. What is a repository in GitHub?

   a) A collection of branches

   b) A folder containing project files

   c) A user's profile page

   d) A virtual machine

4. Which command is used to clone a repository from GitHub to your local machine?

   a) git commit

   b) git clone

   c) git push

   d) git pull

5. What is a pull request in GitHub?

   a) A request to merge changes from one branch to another

   b) A request to delete a repository

   c) A request to revert commits

   d) A request to add collaborators to a repository

6. Which of the following is NOT a valid Git/GitHub branch type?

   a) Master

   b) Feature

   c) Mainline

   d) Clone

7. What is the purpose of forking a repository on GitHub?

   a) To copy someone else's code for personal use

   b) To collaborate on a project without affecting the original repository

   c) To create a backup of a repository

   d) To report a bug in the original repository

8. Which of the following is NOT a way to contribute to an open-source project on GitHub?

   a) Forking the repository

   b) Opening issues

   c) Making pull requests

   d) Deleting files from the repository

9. What is the file extension for GitHub Actions workflow files?

   a) .yml

   b) .json

   c) .config

   d) .yaml

10. What is a GitHub Gist?

   a) A small bug in the GitHub platform

   b) A code snippet or pastebin-like service

   c) A collaboration tool for teams

   d) A feature for tracking code performance

11. Which of the following is NOT a valid Git command?

a) git add

b) git commit

c) git save

d) git push

12. What is the purpose of the .gitignore file in a GitHub repository?

a) To list the collaborators of the repository

b) To specify which files and directories to ignore in version control

c) To mark important files for backup

d) To configure repository settings

13. Which programming language is used to write GitHub Actions workflows?

a) Python

b) JavaScript

c) YAML

d) Ruby

14. What is the purpose of the GitHub Pages feature?

a) To host static websites directly from a GitHub repository

b) To collaborate on project documentation

c) To create dynamic web applications

d) To provide customer support

15. What is the primary benefit of Continuous Integration (CI) with GitHub Actions?

a) Improved code quality through automated testing

b) Faster internet connection

c) Higher number of GitHub followers

d) More stars for the repository

16. Which GitHub feature allows you to track and manage tasks, enhancements, and bugs for your projects?

a) Issues

b) Pull requests

c) Gists

d) Projects

17. What is the purpose of the GitHub Security tab?

a) To share security vulnerabilities with other users

b) To manage access control for the repository

c) To scan repositories for security vulnerabilities and get recommendations

d) To report spam and abusive behavior

18. What is GitHub Actions Marketplace?

a) A place to buy and sell GitHub repositories

b) A marketplace for plugins and integrations to use with GitHub Actions

c) A forum for discussing GitHub issues

d) A marketplace for job postings related to GitHub

19. What is the difference between a GitHub organization and a user account?

a) Organizations can only have one member, while user accounts can have multiple members.

b) User accounts can have unlimited repositories, while organizations have limited repositories.

c) Organizations are designed for collaborative work, while user accounts are for personal projects.

d) There is no difference; they are the same thing.

20. Which Git command is used to stage changes for commit?

a) git stage

b) git commit

c) git add

d) git push

21. What is the purpose of GitHub's "Watch" feature?

a) To monitor the performance of a repository

b) To track changes made by collaborators

c) To receive notifications about activity on a repository

d) To download the repository to a local machine

22. What is the purpose of GitHub's "Star" feature?

a) To rate the quality of a repository

b) To bookmark a repository for later reference

c) To download the repository to a local machine

d) To report a security vulnerability

23. Which Git command is used to create a new branch?

a) git branch

b) git merge

c) git checkout

d) git new

24. What is the purpose of the GitHub Desktop application?

a) To write code directly in the browser

b) To manage repositories and perform Git operations through a graphical interface

c) To host websites using GitHub Pages

d) To edit GitHub profile settings

25. What is the purpose of the GitHub Insights tab?

a) To provide insights into repository performance and usage

b) To share insights about open-source projects with the community

c) To showcase developer achievements and awards

d) To display trending repositories

26. Which Git command is used to merge branches?

a) git branch

b) git checkout

c) git merge

d) git pull

27. What is the purpose of GitHub's "Fork" feature?

   a) To create a copy of a repository under your GitHub account

   b) To share your repository with others

   c) To revert changes made in a repository

   d) To create a backup of a repository

28. What is the purpose of GitHub's "Contributors" section?

   a) To display a list of users who have starred the repository

   b) To showcase developers who have contributed code to the repository

   c) To highlight popular open-source contributors

   d) To provide customer support for the repository

29. Which Git command is used to view the commit history?

   a) git log

   b) git status

   c) git history

   d) git show

30. What is the purpose of the GitHub Marketplace?

   a) To buy and sell physical goods related to software development

   b) To find and install apps that integrate with GitHub

   c) To share project ideas and collaborate with other developers

   d) To provide educational resources for learning Git and GitHub