Software Engineering Essentials

Software Engineering · Answer Key · 12 Questions

1. Which phase of the Software Development Life Cycle (SDLC) involves finding and fixing errors in the code?

A) Deployment
B) Maintenance
C) Testing
D) Design

2. What is the primary purpose of a version control system like Git?

A) To speed up computer processors
B) To track changes in source code over time
C) To prevent unauthorized internet access
D) To automatically write code for programmers

3. In software engineering, what does the acronym 'IDE' stand for?

A) Integrated Development Environment
B) Internal Data Engine
C) Internet Digital Exchange
D) Input Design Element

4. Which document describes the specific requirements, features, and constraints of a software project?

A) User Manual
B) Marketing Brochure
C) Software Requirements Specification (SRS)
D) Budget Report

5. What is the main goal of 'refactoring' code?

A) To add new features to the software
B) To improve internal structure without changing external behavior
C) To delete all comments from the project
D) To translate code into a different human language

6. Which type of programming language is executed directly by the computer's hardware without needing a compiler or interpreter?

A) Python
B) Machine Code
C) Java
D) C++

7. What is a 'bug' in the context of software engineering?

A) A type of computer hardware
B) A feature requested by the user
C) A flaw or error that produces an incorrect result
D) A security measure against viruses

8. Which of the following is considered a 'high-level' programming language?

A) Assembly
B) Python
C) Binary
D) Machine Code

9. What does a 'compiler' do?

A) Translates high-level source code into machine code
B) Connects the computer to the internet
C) Stores user data in a database
D) Designs the graphical user interface

10. In software engineering, what is 'pseudocode' used for?

A) Creating final executable programs
B) Encrypting sensitive user data
C) Planning and outlining the logic of an algorithm
D) Running code on remote servers

11. What is the role of a 'comment' in a computer program?

A) To tell the computer which file to open
B) To provide human-readable notes about the code
C) To increase the speed of program execution
D) To secure the code from hackers

12. Which of these is a widely used agile software development methodology?

A) Waterfall
B) Scrum
C) Monolithic
D) Linear Execution

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