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*Software-Development-Fundamentals
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Question: 1

Which architectural style is characterized by the arrangement of services into layers, each with a defined role and responsibility?

Response:

- A. Microservices
- B. Monolithic
- C. Layered
- D. Serverless

Answer: C

Question: 2

Which phase of SDLC involves establishing the detailed software architecture?

Response:

- A. Requirement analysis
- B. Design
- C. Development
- D. Deployment

Answer: B

Question: 3

What is a key feature of the Python programming language that differentiates it from Java?

Response:

- A. Strong type system
- B. Garbage collection
- C. Dynamic typing
- D. Platform independence

Answer: C

Question: 4

During which SDLC phase is the software 'deployment' plan typically created?

Response:

- A. Requirements analysis
- B. Design
- C. Testing
- D. Maintenance

Answer: B

Question: 5

Considering the principles of secure software development, which practice is most effective in preventing SQL injection attacks?

Response:

- A. Using regular expressions to validate input
- B. Employing least privilege access control
- C. Utilizing prepared statements and parameterized queries
- D. Encrypting data stored in databases

Answer: C

Question: 6

Consider the following software metrics. Which are used to assess the complexity of a program?
(Choose Three)

Response:

- A. Cyclomatic complexity
- B. Lines of code
- C. Number of commits
- D. Function point analysis

Answer: A,B,D

Question: 7

In a typical software development process, which method is best for identifying end-user needs?

Response:

- A. Regression testing
- B. Peer reviews
- C. User interviews
- D. Code analysis

Answer: C

Question: 8

In object-oriented programming, which concept allows a subclass to provide a specific implementation of a method that is already defined in its superclass?

Response:

- A. Encapsulation
- B. Abstraction
- C. Inheritance
- D. Polymorphism

Answer: D

Question: 9

What are common practices in Test-Driven Development (TDD)?

(Choose Two)

Response:

- A. Writing tests after developing code.
- B. Writing tests before developing code.
- C. Refactoring code after tests pass.
- D. Writing tests without any regard to existing code.

Answer: B,C

Question: 10

In which SDLC phase would you typically conduct a System Analysis?

Response:

- A. Initiation

-
- B. Design
 - C. Implementation
 - D. Testing

Answer: B

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