Isaca

Software-Development-Fundamentals
Certified Software Development Fundamentals Certification Exam

Questions And Answers PDF Format:

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Version = **Product**

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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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