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WGU D487 – Secure Software Design Exam | 2025/2026 Actual Exam (Version A & B) | 100% Correct Verified Answers | Graded A+

Section 1: Introduction

This comprehensive guide includes both Version A and Version B of the WGU D487 Secure Software Design Exam, tailored to the 2025/2026 certification cycle. It contains detailed, accurate questions and verified answers for each version, reflecting the most current curriculum standards in secure software architecture, threat mitigation, SDLC integration, and compliance frameworks. The content is designed to help students prepare confidently and succeed with distinction—each question is paired with a brief rationale for clarity and mastery.

Section 2: Exam Content and Responses

Version A

1 **Question:** What is the primary goal of secure software design?

- A. Maximize software performance
- B. Protect applications from security threats
- C. Reduce development time
- D. Enhance user interface

Correct Answer: B. Protect applications from security threats

Rationale: Secure design focuses on mitigating vulnerabilities throughout the SDLC.

2 **Question:** Which SDLC phase is most critical for integrating security?

- A. Testing
- B. Requirements gathering
- C. Deployment
- D. Maintenance

Correct Answer: B. Requirements gathering

Rationale: Early integration in requirements ensures security is built-in, per NIST guidelines.

3 **Question:** What is the purpose of threat modeling in secure software design?

- A. Optimize code efficiency
- B. Identify potential security risks
- C. Increase system uptime
- D. Reduce hardware costs

Correct Answer: B. Identify potential security risks

Rationale: Threat modeling, as per OWASP, maps risks to mitigate them proactively.

4 **Question:** Which principle advocates minimizing attack surfaces?

- A. Least privilege

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Software Architecture and Design: This module covers topics in designing, analyzing, and managing large scale software systems. Students will learn various architecture types, how to select and implement appropriate design patterns, and how to build well structured, reliable, and secure software systems.

Topic 2	<ul style="list-style-type: none"> Design Pattern Selection and Implementation: This section of the exam measures skills of Software Developers and Software Architects and covers the selection and implementation of appropriate design patterns. Learners examine common design patterns and their applications in software development. The material focuses on understanding when and how to apply specific patterns to solve recurring design problems and improve code organization.
Topic 3	<ul style="list-style-type: none"> Reliable and Secure Software Systems: This section of the exam measures skills of Software Engineers and Security Architects and covers building well structured, reliable, and secure software systems. Learners explore principles for creating software that performs consistently and protects against security threats. The content addresses methods for implementing reliability measures and security controls throughout the software development lifecycle.
Topic 4	<ul style="list-style-type: none"> Software Architecture Types: This section of the exam measures skills of Software Architects and covers various architecture types used in large scale software systems. Learners explore different architectural models and frameworks that guide system design decisions. The content addresses how to identify and evaluate architectural patterns that best fit specific project requirements and organizational needs.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q19-Q24):

NEW QUESTION # 19

Which secure coding best practice ensures sensitive information is not disclosed in any responses to users, authorized or unauthorized?

- A. Authentication and Password Management
- B. Error Handling and Logging**
- C. Input Validation
- D. System Configuration

Answer: B

NEW QUESTION # 20

The final security review determined that two low-risk security issues identified in testing are still outstanding. Developers have assured the security team that both issues can be resolved quickly once they have time to fix them. The security team is confident that developers can fix the flaws in the first post-release patch.

What is the result of the final security review?

- A. Passed
- B. Passed with Exceptions**
- C. Not Passed but Does Not Require Escalation
- D. Not Passed and Requires Escalation

Answer: B

NEW QUESTION # 21

Which secure coding best practice says to use a single application-level authorization component that will lock down the application if it cannot access its configuration information?

- A. Data protection
- B. Communication security
- C. Session management
- D. Access control

Answer: D

Explanation:

The secure coding best practice that recommends using a single application-level authorization component to lock down the application if it cannot access its configuration information is known as Access Control. This practice is part of a broader set of security measures aimed at ensuring that only authorized users have access to certain functionalities or data within an application. By centralizing the authorization logic, it becomes easier to manage and enforce security policies consistently across the application. If the authorization component cannot retrieve its configuration, it defaults to a secure state, thus preventing unauthorized access.

References: 1: OWASP Secure Coding Practices - Quick Reference Guide

NEW QUESTION # 22

A new product does not display personally identifiable information, will not let private documents be printed, and requires elevation of privilege to retrieve archive documents. Which secure coding practice is this describing?

- A. Data protection
- B. Input validation
- C. Authentication
- D. Access control

Answer: D

Explanation:

The secure coding practice being described is Access Control. This practice ensures that access to data and features within a system is restricted and controlled. The description given indicates that the product has mechanisms to prevent the display of personally identifiable information (PII), restrict the printing of private documents, and require elevated privileges to access archived documents. These are all measures to control who has access to what data and under what circumstances, which is the essence of access control.

:

ISO/IEC 27018 Code of Practice for Protecting Personal Data in the Cloud1.

NIST SP 800-122, Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)2.

ISO/IEC 29151:2017, Code of practice for personally identifiable information protection3.

NEW QUESTION # 23

Which software control test examines the internal logical structures of a program and steps through the code line by line to analyze the program for potential errors?

- A. Black box testing
- B. White box testing
- C. Dynamic testing
- D. Reasonableness testing

Answer: B

Explanation:

White box testing, also known as clear box testing, glass box testing, transparent box testing, and structural testing, is a method of software testing where the internal structure, design, and coding of the software are tested to verify the flow of input-output and to improve the design, usability, and security. It involves looking at the structures that are internal to the system, with the tester having knowledge of the internal workings of the product. This type of testing is concerned with examining the internal logical structures of the program and is typically performed by stepping through the code line by line to analyze the program for potential errors, which aligns with the description of the control test in question.

References:

- * Control Structure Testing - GeeksforGeeks1
- * What is White Box Testing? - BrowserStack2
- * Software Testing Strategies Chapter 18 - IIT3

NEW QUESTION # 24

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Challenge is omnipresent like everywhere. By eliciting all necessary and important points into our Secure-Software-Design practice engine, their quality and accuracy have been improved increasingly, so their quality is trustworthy and unquestionable. There is a bunch of considerate help we are willing to offer on our Secure-Software-Design learning questions. If you have any question on downloading or opening the file, you can just contact us. And we will help you until you can use our Secure-Software-Design exam prep.

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