

## CYB0103: Cybersecurity Design Principles Question Bank

### Chapter 3

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#### Part I: multiple choice questions:

1) \_\_\_\_\_ is any part of a system that, by itself, provides all or a portion of the total functionality required of a system:

- A) Component.
- B) Trustworthy.
- C) Trust.
- D) Simplicity.

Answer: A

2) \_\_\_\_\_ is the degree to which the security behavior of the component is demonstrably compliant with its stated functionality:

- A) Component.
- B) Trustworthy.
- C) Trust.
- D) Simplicity.

Answer: B

3) \_\_\_\_\_ is the degree to which the user or a component depends on the trustworthiness of another component:

- A) Component.
- B) Trustworthy.
- C) Trust.
- D) Simplicity.

Answer: C

4) \_\_\_\_\_ is the quality of being easy to understand or use:

- A) Component.
- B) Trustworthy.
- C) Trust.
- D) Simplicity.

Answer: D

5) Which one of the following does NOT improve Simplicity in security:

- A) Companies need to keep software design as simple and small as possible.
- B) Companies need to evaluate what they need from multipurpose security suites.
- C) Companies need to invest in prevention more than detection and response.
- D) Companies need to avoid modern techniques that use the power of automation and machine learning.

Answer: D





6) \_\_\_\_\_ is a centralized piece of code through which control must pass:

- A) Choke Point.
- B) Hardening.
- C) Minimization.
- D) Complexity.

**Answer: A**

7) \_\_\_\_\_ means that all unnecessary services off by default:

- A) Choke Point.
- B) Hardening.
- C) Minimization.
- D) Complexity.

**Answer: B**

8) \_\_\_\_\_ means reducing the size, quantity, and complexity of what is to be protected, and limit externally facing points of attack:

- A) Choke Point.
- B) Hardening.
- C) Minimization.
- D) Complexity.

**Answer: C**

9) Remove or disable code known to create vulnerabilities, like JavaScript and Flash, is one way to apply:

- A) Choke Point.
- B) Hardening.
- C) Minimization.
- D) Simplicity.

**Answer: C**

10) Reduce the number of components used, keeping only those that are essential is one way to apply:

- A) Choke Point.
- B) Hardening.
- C) Minimization.
- D) Simplicity.

**Answer: D**



**Part II: true / false questions:**

#	Question	Answer
1	The worst enemy of security is <b>simplicity</b> .	F
2	Complexity increases security costs and risk.	T
3	Complexity makes vulnerabilities harder for developers and testers to find and fix.	T
4	<b>Simple</b> software is likely to have many more bugs and vulnerabilities than <b>complex</b> software.	F
5	The key to maintain software security is to keep the software as <b>complex</b> as possible.	F
6	Automation with Machine Learning increases software <b>complexity hence decreases security</b> .	F
7	Investment on <b>detection and response more than prevention</b> increases software simplicity hence increases security.	F
8	The less functionality one has to look at in a given application, the less security exposure and vulnerability that piece of software will have.	T
9	Simplicity allows system designers and programmers to identify unwanted access paths.	T
10	Simplicity makes testers able to cover all possible combinations and spot problems sooner.	T
11	Having <b>all features of a system turned on</b> by default increases software simplicity hence increases security.	F
12	The more enabled features of a system the more potential exploits and decreased security.	T
13	Intuitive and straightforward access control rules is an example of simplicity.	T
14	Easy to follow and maintain program statements is an example of simplicity.	T
15	Interface designs that allow correct application of security features is an example of simplicity.	T

**Commented [R.1]:** complexity

**Commented [R.2]:** Complex

**Commented [R.3]:** simple

**Commented [R.4]:** simple

**Commented [R.5]:** simplicity hence increases security

**Commented [R.6]:** prevention more than detection and response

**Commented [R.7]:** The more enabled features of a system the more potential exploits and decreased security

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