

Unit 8 Test

Your Score: **95%**
19 Correct out of **20**
Question 1 of 20

Which of the following is the most common public-key encryption algorithm?

- ☒ RSA

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Question 2 of 20

The ____ algorithm, developed in 1977, is based on results from the field of mathematics known as number theory.

- ☒ RSA

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Question 3 of 20

____ is politically motivated information theft or hardware damage for the purpose of sabotage and/or espionage.

- ☒ Cyberwarfare

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Question 4 of 20

In a ____ cipher, a group or block of plaintext letters gets encoded into a block of ciphertext, but not by substituting one character at a time for each letter.

- ☒ block

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Question 5 of 20

____ is an encryption algorithm developed by IBM in the 1970s for the U.S. National Bureau of Standards.

- ☒ DES

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The ____ protocol is nonproprietary and is a standard supported by the Internet Engineering Task Force.

- ☒ TLS

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Question 7 of 20

____ is the process of using people to get the information you want.

- ☒ Social engineering

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Question 8 of 20

An operating system ____ a password for a given user, converting it into a representation that cannot be understood without the appropriate algorithm.

- ☒ encrypts

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With AES, the key length can be all of the following EXCEPT ____.

- ☒ 526

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Question **10** of **20**

Technically, TLS/SSL fits between the ____ layer, with its TCP protocols, and the Application layer, with its HTTP protocols.

- ☒ Transport

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Question **11** of **20**

One problem with the ____ algorithm is the computational overload for encryption/decryption.

- ☒ RSA

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Question **12** of **20**

____ is the process of verifying that you really are the person who has the right to access a given computer.

- ☒ Authentication

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Question **13** of **20**

For safety-critical systems, ____ is a key requirement.

- ☒ reliability

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Question **14** of **20**

____ computers are computational devices such as chips or processors that are contained within another system.

- ☒ Embedded

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Question **15** of **20**

A ____ is a computer program that infects a host computer and then spreads.

- ☒ virus

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Question **16** of **20**

____ is the practice of hiding the very existence of a message.

- ☒ Steganography

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Question **17** of **20**

A DES algorithm begins by sending a plaintext 64-bit string through an initial permutation; the algorithm then cycles through ____ rounds.

- ☒ 16

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____ governs what an authenticated user is allowed to do.

- ☒ Authorization

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Although information encrypted using _____ is technically not secure, it is considered secure in practice because of the large amount of computation necessary to find the prime factors of the encoding key.

- ☒ RSA

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The exchange of setup information between the client and the server, preparatory to exchanging real data, is known as a(n) _____.

- ☒ handshake