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Question 1

Why is quantum computing a threat to RSA?

Options:

A- The processing speed will brute force algorithms

B- Quantum computers can solve the discrete logarithm problem

C- Quantum computers can solve the birthday paradox

D- Quantum computers can factor large integers in polynomial time

Answer:

D

Question 2

In order to understand RS

A- you must understand the key generation algorithm as well as the encryption and decryption algorithms. Which one of the following equations describes the encryption process for RSA?

A- Me mod n

B- Ce mod n

C- y2 = x3 + Ax + B

D- P = Cd mod n

Answer:

B

Question 3

Question Type: MultipleChoice

Which one of the following wireless standards uses AES using the Counter Mode-Cipher Block Chaining (CBC)-Message Authentication Code (MAC) Protocol (CCMP)?

Options:

A- WEP2

B- WPA

C- WEP

D- WPA2

Answer:

D

Question 4

Question Type: **MultipleChoice**

A part of understanding symmetric cryptography understands the modes in which it can be used. You are

explaining those modes to a group of cryptography students. The most basic encryption mode is_____.

The message is divided into blocks, and each block is encrypted separately with no modification to the process.

Options:

A- Cipher block chaining (CBC)

B- Cipher feedback (CFB)

C- Output feedback (OFB)

D- Electronic codebook (ECB)

Answer:

D

Question 5

Question Type: **MultipleChoice**

John is trying to select the appropriate authentication protocol for his company. Which of the following types of authentication solutions use tickets to provide access to various resources from a central location?

Answer:

A

Question 6

Question Type: **MultipleChoice**

How does Kerberos generate the first secret key in the authentication process?

Options:

A- By generating a random AES key

B- By creating a hash of the user password

C- By hashing the user ID, network ID. and salt

D- By using the user's public key

Answer:

B

Question 7

Question Type: **MultipleChoice**

How many qubits are needed to break RSA?

Options:

A- 1000

B- 2000

C- 4000

D- 100

Answer:

C

Question 8

Question Type: **MultipleChoice**

Which of the following acts as a verifier for the certificate authority?

Options:

A- Certificate Management system

B- Directory management system

C- Registration authority

D- Certificate authority

Answer:

C

Explanation:

Registration authority

https://en.wikipedia.org/wiki/Registration_authority

Registration authorities exist for many standards organizations, such as ANNA (Association of National Numbering Agencies for ISIN), the Object Management Group, W3C, IEEE and others. In general, registration authorities all perform a similar function, in promoting the use of a particular standard through facilitating its use. This may be by applying the standard, where appropriate, or by verifying that a particular application satisfies the standard's tenants. Maintenance agencies, in contrast, may change an element in a standard based on set rules -- such as the creation or change of a currency code when a currency is created or revalued (i.e. TRL to TRY for Turkish lira). The Object Management Group has an additional concept of certified provider, which is deemed an entity permitted to perform some functions on behalf of the registration authority, under specific processes and procedures documented within the standard for such a role.

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