

Cryptography

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A traditional computational bit can take either a 0 or a 1 value. How many values can one quantum bit (qubit) take? 1 point

- ☒ 2^{64}
- ☐ 512
- ☐ 2
- ☐ 8

Clear selection



If we call Euclid's GCD, $\text{EuclidGCD}(a, b)$, algorithm, what will be the value of a and b in 4th recursive call when $\text{EuclidGCD}(824, 520)$ is called? Here 4th recursive call refers to the 4th function call after the function is called with initial inputs (No further hints or clarifications will be given on this). 2 points

- ☐ 216,88
- ☐ 88,40
- ☐ 40,8
- ☐ 95,36

When a user needs to provide message integrity, what options may be best? 1 point

- ☐ Send a digital signature of the message to the recipient.
- ☐ Encrypt the message with a symmetric algorithm and send it.
- ☐ Encrypt the message with a private key so the recipient can decrypt with the corresponding public key.
- ☒ Create a checksum, append it to the message, encrypt the message, then send to recipient.

Clear selection

What is a trial-and-error method used to decode encrypted data through exhaustive effort rather than employing intellectual strategies? 1 point

- ☒ Brute-force cracking
- ☐ Cryptanalysis

Clear selection



Rivest-Shamir-Adleman, or RSA, is an algorithm used for symmetric key cryptography.

1 point

- ☐ True
- ☒ False

Clear selection

What is a disadvantage of using a public key algorithm compared to a symmetric algorithm?

1 point

- ☐ A symmetric algorithm provides better access control.
- ☐ A symmetric algorithm provides nonrepudiation of delivery.
- ☐ A symmetric algorithm is more difficult to implement.
- ☒ A symmetric algorithm is a faster process.

Clear selection

How long would a 10-bit message be after being encrypted by a stream cipher?

1 point

- ☐ 2 bits
- ☐ 5 bits
- ☐ 20 bits
- ☒ 10 bits

Clear selection



What is the name of the encryption/decryption key known only to the party 1 point
or parties that exchange secret messages?

- ☐ E-signature
- ☐ Digital certificate
- ☒ Private key
- ☐ Security token

Clear selection

What is the Diffie-Hellman key exchange vulnerable to? 1 point

- ☐ Snooping
- ☒ Man-in-the-middle attacks
- ☐ Phishing attacks
- ☐ Denial-of-service attacks

Clear selection

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