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UNIVERSIDAD NACIONAL DE INGENIERÍA
FACULTAD DE INGENIERÍA ELÉCTRICA Y ELECTRÓNICA
QUÍMICA I (BQU01)

TEST SEM12

1.-

El cobre cristaliza en una estructura cúbica centrada en las caras (FCC) con parámetro de red $a = 3.615 \text{ \AA}$. Su masa atómica es $M = 63.546 \text{ g/mol}$ y su densidad experimental medida es $\rho_{exp} = 8.93 \text{ g/cm}^3$.

1. Calcula la **densidad teórica** del cobre ideal (sin defectos) suponiendo que la celda contiene 4 átomos.
2. Determina la **fracción de vacantes** (vacíos atómicos) presentes en la red metálica usando:

$$f = 1 - \frac{\rho_{exp}}{\rho_{teórica}}$$

3. Explica cómo estos defectos pueden afectar la **conductividad eléctrica** del cobre.

2.-

Un cristal de silicio (estructura tipo diamante, $a = 5.43 \text{ \AA}$) se dopa con 1 átomo de fósforo por cada 10^6 átomos de Si.

1. Calcula la **densidad teórica** del silicio puro (masa atómica $M_{Si} = 28.0855 \text{ g/mol}$).
2. Determina la **variación porcentual de la densidad** del cristal al doparse con fósforo ($M_P = 30.9738 \text{ g/mol}$).
3. Estima la **concentración de defectos sustitucionales** en el material (átomos P/cm³).

Dra Lupe Pizarro Toscano

P.S. Free 2025 Huawei H12-725_V4.0 dumps are available on Google Drive shared by TestValid: <https://drive.google.com/open?id=1I3jcjaSZx38ThRxpjRPQXSAAyLte8Y>

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Huawei HCIP-Security V4.0 Sample Questions (Q29-Q34):

NEW QUESTION # 29

Which of the following is the function of Message 1 and Message 2 during IKEv1 phase-1 negotiation in main mode?

- A. Exchange of key-related information (materials used for key generation) using the DH algorithm and generation of keys
- **B. Negotiation of the IKE proposals used between peers**
- C. Mutual identity authentication
- D. IPsec SA negotiation

Answer: B

Explanation:

Comprehensive and Detailed Explanation:

* IKEv1 Phase 1 (Main Mode) consists of six messages:

* Messages 1 & 2 # Negotiate security proposals(encryption, authentication, and DH group).

* Messages 3 & 4 # Exchange key-related information.

* Messages 5 & 6 # Perform mutual authentication.

* Why is B correct?

* Messages 1 and 2 negotiate IKE proposals between VPN peers.

HCIP-Security References:

* Huawei HCIP-Security Guide # IKEv1 Main Mode Negotiation

NEW QUESTION # 30

In quota control policies, which of the following can be set for users?(Select All that Apply)

- **A. Limiting the daily online duration**
- **B. Limiting the total daily online traffic**
- **C. Limiting the total monthly online traffic**
- **D. Limiting the total online duration per month**

Answer: A,B,C,D

Explanation:

Comprehensive and Detailed Explanation:

* Quota control policies regulate user access and resource usage based on bandwidth and time constraints.

* All options are correct since Huawei firewalls support:

* A# Restricting the daily online duration.

* B# Restricting the total monthly online traffic.

* C# Restricting the total daily online traffic.

* D# Restricting the total online duration per month.

HCIP-Security References:

* Huawei HCIP-Security Guide # User Quota Control Policies

NEW QUESTION # 31

Which of the following statements are true about SYN scanning attacks?(Select All that Apply)

- A. When the scanner sends a SYN packet, if the peer end responds with a SYN-ACK packet, the scanner then responds with an ACK packet to complete the three-way handshake.
- B. When the scanner sends a SYN packet, a SYN-ACK response indicates an open port.
- C. If the peer end does not respond to the SYN packet sent by the scanner, the peer host does not exist, or filtering is performed on the network or host.
- D. When the scanner sends a SYN packet, an RST response indicates a closed port.

Answer: B,C,D

Explanation:

Comprehensive and Detailed Explanation:

* SYN scanning is a stealthy technique used to identify open ports on a target system without fully establishing a TCP connection.

* How SYN scanning works:

* The scanner sends a SYN packet to the target port.

* The target responds based on the port state:

* SYN-ACK # Port is open(Correct - D).

* RST # Port is closed(Correct - A).

* No response # The host does not exist, or a firewall is blocking it(Correct - B).

* The scanner does not send an ACK(unlike a full TCP connection). Instead, it sends an RST to avoid detection.

* Why is C incorrect?

* In SYN scanning, the scanner does NOT send an ACK to complete the handshake. Instead, it sends an RST to abort the connection.

HCIP-Security References:

* Huawei HCIP-Security Guide # SYN Scanning Techniques

NEW QUESTION # 32

Authentication rules configured on iMaster NCE-Campus support multiple matching conditions, such as matching account information, SSID information, and terminal IP address ranges, so that different authentication rules can be executed for different users.

- A. FALSE
- B. TRUE

Answer: B

Explanation:

Comprehensive and Detailed Explanation:

* iMaster NCE-Campus authentication supports multi-condition matching:

* Account information(e.g., username, password, role-based policies).

* SSID information(specific Wi-Fi network authentication).

* Terminal IP address ranges(assigns different policies based on network segments).

* Why is this statement true?

* Multiple authentication conditions can be applied simultaneously to enforce flexible access control.

HCIP-Security References:

* Huawei HCIP-Security Guide # iMaster NCE-Campus Authentication Policy

NEW QUESTION # 33

Which of the following statements is false about HTTP behavior?

- A. The POST method of HTTP is commonly used to send information to the server through web pages. For example, use this method when you post threads, submit forms, and use your username and password to log in to a specific system.
- B. When the size of the uploaded or downloaded file or the size of the content obtained through the POST operation reaches the alarm threshold, the system generates a log to notify the device administrator and block the behavior.
- C. You can set an alarm threshold and a block threshold to limit the size of the upload file if file upload is allowed.

- D. When the size of the uploaded or downloaded file or the size of the content obtained through the POST operation reaches the block threshold, the system blocks the uploaded or downloaded file or POST operation.

Answer: B

Explanation:

Comprehensive and Detailed Explanation:

- * Threshold settings in firewalls allow administrators to define:
- * Alarm threshold# When exceeded, logs are generated.
- * Block threshold# When exceeded, the action is blocked.
- * Why is B false?
- * The alarm threshold does not block traffic; it only generates logs.
- * Only the block threshold enforces blocking actions.

HCIP-Security References:

- * Huawei HCIP-Security Guide # HTTP Traffic Control

NEW QUESTION # 34

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