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**CHEM 280 MIDTERM EXAM AND CHEM 280 FINAL EXAM PRACTICE TESTS WITH 300 REAL EXAM QUESTIONS WITH CORRECT DETAILED ANSWERS (EXPERT VERIFIED SOLUTIONS TO ALL CALC PROBLEMS AND FORMULAS SHOWN)**

**Chem 280 midterm exam practice qs**

These are all the formulas you need to know to succeed!

1. Molarity = Moles / Volume
2. Moles = Mass / Molar Mass  
Moles 9 is also  $9 \times 10^{-3}$  Milli Moles
3. pH =  $-\log$  x Cation
4.  $H_3O^+ \times OH^- = 1 \times 10^{-14}$
5. Total Mass = Solute + Solvent
6. Mass Percent = Solvent Mass / Total Mass x 100
7. Total Pressure - Partial Pressures = Remaining Pressure
8.  $P_1 \times V_1 / T_1 = P_2 \times V_2 / T_2$
9. Molar Mass = G/Mol
10. Specific Heat = Energy / (Mass x Temp)
11.  $V_1 / T_1 = V_2 / T_2$
12.  $M_1 \times V_1 = M_2 \times V_2$
13. Percent Yield = Actual Yield / Theoretical Yield

What is the molarity of a solution prepared by dissolving 10.7 g NaI in 0.250 L?  
0.286

**Molarity (M) = Number of Moles of solute / Liters solution**

- How many moles represent 10.7 g of NaI?  
 $NaI = 22.9 \text{ g/mol} + 126.90 \text{ g/mol} = 149.8 \text{ g/mol}$

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## Cisco Implementing Cisco Data Center AI Infrastructure Sample Questions (Q16-Q21):

### NEW QUESTION # 16

A Cisco Nexus switch is configured with QoS policies for AI traffic. Which scheduling mechanism guarantees bandwidth for critical traffic classes during congestion?

- A. Weighted scheduling
- B. MAC filtering
- C. Port mirroring
- D. FIFO

**Answer: A**

Explanation:

Weighted scheduling allocates bandwidth according to configured priorities, ensuring critical AI traffic receives adequate forwarding resources during congestion. FIFO provides no prioritization, while MAC filtering and port mirroring are unrelated to congestion management or QoS scheduling.

### NEW QUESTION # 17

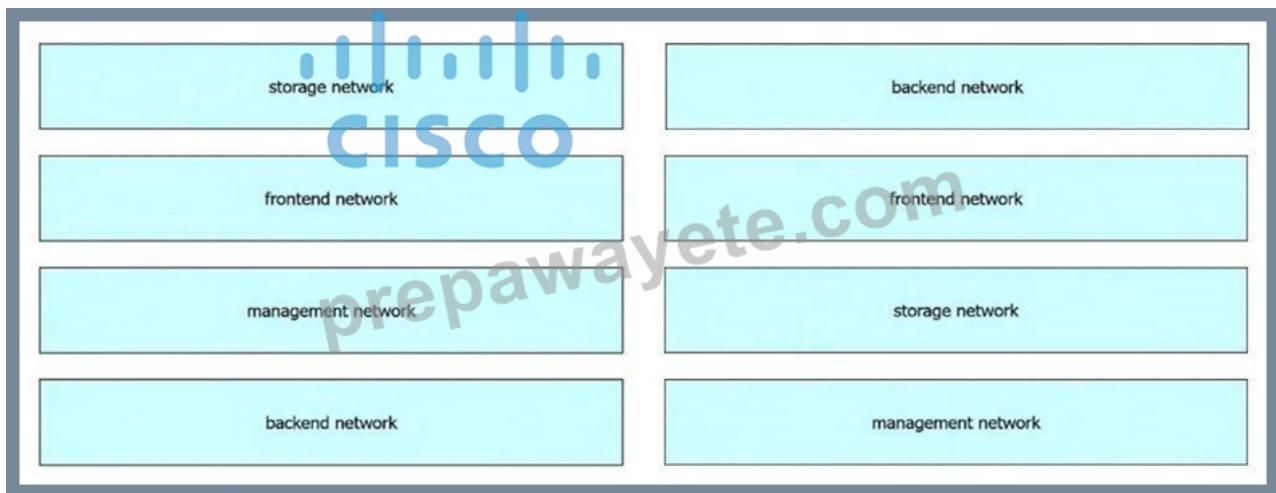
Drag and Drop Question

An organization is deploying an AI/ML infrastructure with multiple network fabrics, each serving a specific purpose. The network architect must match the network fabric type with its primary function. Drag and drop the network fabric types from the left onto the corresponding descriptions on the right.

storage network	It connects the dedicated GPU ports for running distributed training jobs with GPU-to-GPU communication.
frontend network	It connects the GPU nodes to the data center network for inference workloads, logging, managing in-band devices, and for reachability from outside the GPU cluster.
management network	It connects the GPU nodes to shared storage devices providing parallel file system access to all nodes for datasets and checkpoints.
backend network	It provides out-of-band connectivity to the devices of the AI/ML infrastructure, such as GPU nodes, network switches, and storage devices.

**Answer:**

Explanation:



### NEW QUESTION # 18

A data center administrator for a medium-sized manufacturing facility uses Intersight to perform unattended operating system installation on already discovered X-Series servers with server profiles assigned. Which set of prerequisites must be met for installing an operating system on a server in Cisco Mode?

- A. adding an OS image to the software repository  
adding a server configuration utility to the software repository
- **B. adding an OS image to the software repository  
adding an operating system configuration file to the software repository**
- C. configuring a firmware policy  
adding an operating system configuration file to the software repository
- D. configuring a virtual KVM policy  
adding a server configuration utility to the software repository

**Answer: B**

Explanation:

In Cisco Intersight, unattended operating system installation requires the OS installation image and the operating system configuration file to be available in the software repository. These files allow Intersight to boot the installer and apply the required unattended installation parameters to the assigned server profile.

### NEW QUESTION # 19

A network team is configuring quality of service (QoS) for RoCEv2 traffic on a VXLAN fabric. The team must ensure that congestion notification packets (CNP) generated by storage targets are never dropped in the network, as these packets are critical for congestion control feedback. How must CNP packets be handled in the QoS configuration to ensure reliable delivery?

- A. Configure CNP packets to use the same queue as regular RoCEv2 data traffic.
- B. Apply traffic shaping to CNP packets to prevent them from causing additional congestion.
- C. Enable Priority Flow Control specifically for CNP packets on a dedicated CoS value.
- **D. Classify CNP packets to a high-priority queue using their DSCP marking.**

**Answer: D**

Explanation:

CNP packets provide congestion feedback for RoCEv2 traffic and must be delivered reliably so senders can reduce their transmission rate when congestion is detected. Classifying CNP packets into a high-priority queue based on their DSCP marking ensures that these control packets receive preferential treatment and are not dropped during congestion.

### NEW QUESTION # 20

A Cisco AI cluster requires segmentation between multiple research teams sharing the same physical infrastructure. Which solution provides scalable tenant isolation?

- A. VLAN-only design
- **B. VXLAN overlays**
- C. Static NAT
- D. Hub-and-spoke WAN

**Answer: B**

Explanation:

VXLAN overlays provide scalable multi-tenant segmentation using large VNI spaces beyond traditional VLAN limitations. AI infrastructures often support many isolated environments simultaneously. VLAN-only designs have scalability constraints, while WAN topologies and NAT do not provide modern data center tenant segmentation.

## NEW QUESTION # 21

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