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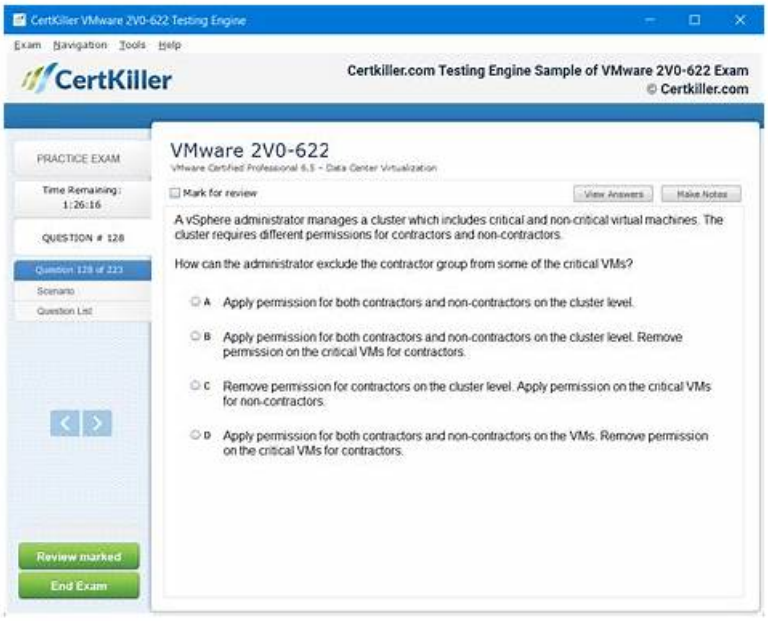

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Nokia Optical Networking Fundamentals Sample Questions (Q45-Q50):

NEW QUESTION # 45
A user needs to retrieve the active alarm list from a network element. Which command should be issued through an 1830 PSS CLI?

- A. show active alarms
- B. display alarms
- C. alm
- D. retrieve alarms

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:
The Nokia 1830 PSS uses a Command Line Interface (CLI) that is distinct from the Nokia SR-OS used in routers. For technicians performing local maintenance or troubleshooting via a serial or SSH connection to the Shelf Controller (EC), the command to view the current status of the network element's alarms is show fault-database or the shorthand alm.
When the alm command is executed, the system displays a table containing all active alarms, their severity (Critical, Major, Minor, or Warning), the timestamp of the occurrence, and the specific object (e.g., a specific port or card) that is reporting the fault. This is the primary method for "Layer 0" local troubleshooting. While management software like WS-NOC provides a Graphical User Interface (GUI) to view these alarms, knowing the CLI command is essential for field operations where a connection to the central management system might not be available. Option B, C, and D are incorrect as they do not follow the specific syntax of the 1830 PSS CLI environment.

NEW QUESTION # 46
What is the metro area network?

- A. The metro area network is located in between two access area networks and made of photonic nodes only (no OCS/SWDM nodes are used there).
- B. The metro area network is that portion of network that passes through a city to provide connections to several customers.
- C. The metro area network is made of OCS/SWDM nodes only, as no pure photonic nodes are used here.
- D. The metro area network is located between access and core domains.

Answer: B

Explanation:
The Metro Area Network (MAN) is a telecommunications network that spans a metropolitan area and connects multiple local area networks (LANs) or business networks together. It typically covers an area that is larger than a LAN but smaller than a wide area network (WAN). The purpose of a MAN is to provide a high-bandwidth, low-latency communication infrastructure for businesses and other organizations in a metropolitan area.
Reference:
Cisco, "Metro Ethernet Services," https://www.cisco.com/c/en/us/solutions/service-provider/metro-ethernet-services/index.html
Techopedia, "Metro Area Network (MAN)," https://www.techopedia.com/definition/26896/metro-area-network-man

NEW QUESTION # 47
Which of the following statements about Optical Add/Drop Multiplexers (OADMs) is FALSE?

- A. OADMs always require O-E-O conversion when passing-through optical channels.
- B. OADMs allow the user to terminate specific services through transponders.
- C. OADMs allow the user to pass-through specific services at the wavelength optical level (express channels).
- D. There are two main general classes of OADMs: FOADMs and ROADMs.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:
In the context of the Nokia 1830 PSS (Photonic Service Switch) and general WDM principles, the statement that OADMs always require O-E-O (Optical-Electrical-Optical) conversion for pass-through channels is fundamentally incorrect. The primary purpose of an OADM is to provide the ability to "add" or "drop" specific wavelengths while allowing other wavelengths (known as express or pass-through channels) to continue through the node entirely in the photonic domain.
By remaining in the optical layer, these express channels avoid the latency and cost associated with O-E-O conversion. FOADMs (Fixed OADMs) use static filters to achieve this, while ROADMs (Reconfigurable OADMs) use Wavelength Selective Switches (WSS) to dynamically route traffic. O-E-O conversion only occurs at the transponder or muxponder level when a service is terminated (dropped) or initiated (added) to convert the client signal into a compliant DWDM wavelength. Therefore, the efficiency of an optical network relies on the fact that pass-through traffic stays as light, bypassing the need for electrical processing at every node.

NEW QUESTION # 48
Which use case is most suitable for the deployment of a star topology?

- A. Access networks, for collecting traffic towards the main central node
- B. SNCP-protected links
- C. Backbone networks, for supporting protection routes
- D. ASON networks, to protect traffic via GMPL5 protocols

Answer: A

Explanation:
A star topology is a network design where all devices are connected to a central hub, which acts as a central point of control and management for the network. This type of topology is commonly used in access networks, where a central node is used to aggregate traffic from multiple users or devices, and then forward it to the core network. This design allows for efficient use of resources and easy management of the network.
Reference:
"Computer Networking: A Top-Down Approach" by James Kurose and Keith Ross (Chapter 3)
"Data Communications and Networking" by Behrouz A. Forouzan (Chapter 2)

NEW QUESTION # 49
How are the EPT systems related to NFM-T when CPB is performed?

- A. The systems are displayed on the CPB panel and they can be individually selected
- B. The systems are not reported on CPB, as this Is transparent to the user and the whole network is validated and provisioned in one step
- C. The systems are not reported on CPB, but only through the Equipment Manager
- D. The systems are displayed on the CPB panel, however they cannot be individually selected as they need to run all together

Answer: A

Explanation:
The EPT systems are displayed on the CPB (Commissioning Parameter Builder) panel and they can be individually selected. This allows the user to configure the network elements in the network and provision them according to their specific requirements. The systems are not reported on CPB, but through the Equipment Manager. The Equipment Manager is the interface used to configure the network elements and the EPT systems. The NFM-T is not related to the CPB and does not affect the CPB process.

NEW QUESTION # 50
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