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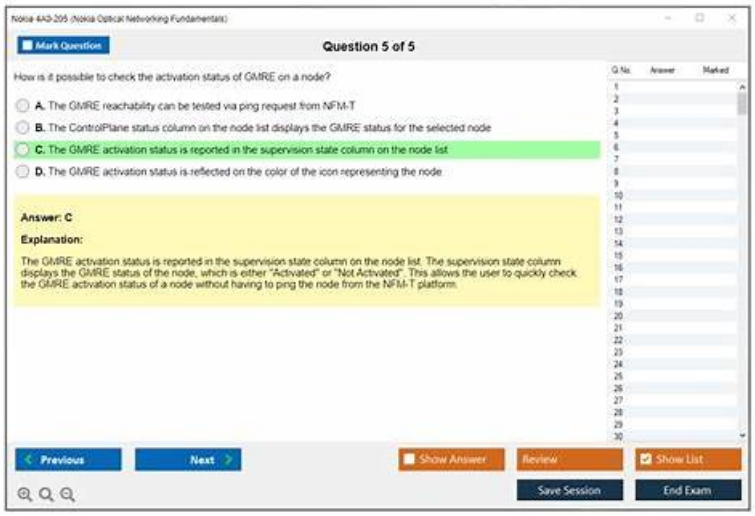

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Nokia Optical Networking Fundamentals Sample Questions (Q36-Q41):

NEW QUESTION # 36
What is the metro area network?

- A. The metro area network is made of OCS/SWDM nodes only, as no pure photonic nodes are used here.
- 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 located in between two access area networks and made of photonic nodes only (no OCS/SWDM nodes are used there).
- 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 # 37
What is the main function of an optical amplifier?

- A. Compensating for attenuation through an optical-electrical-optical amplification
- B. Compensating for chromatic dispersion
- C. Demodulating the incoming signal
- D. Compensating for optical power attenuation

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:
The primary function of an optical amplifier in a WDM system is to provide gain to the optical signal to compensate for optical power attenuation (loss) that occurs as light travels through the optical fiber. As photons travel through kilometers of silica fiber, their energy is absorbed or scattered, leading to a reduction in signal strength. To ensure the signal reaches its destination with sufficient power for the receiver to detect it, amplifiers like the EDFA (Erbium-Doped Fiber Amplifier) or Raman amplifiers are placed at strategic intervals along the fiber span.
It is crucial to distinguish this from Option D; modern optical amplifiers perform purely optical amplification, meaning the signal stays in the photonic domain without being converted to electricity (O-E-O). While some specialized amplifiers (like the RA2P) might interact with other parameters, their fundamental job is power restoration. Furthermore, while amplifiers are essential for a network's reach, they do not compensate for chromatic dispersion-that is the job of Dispersion Compensation Modules (DCM) or electronic dispersion compensation (EDC) in coherent transponders-nor do they demodulate signals, which is the role of the receiver in a transponder.

NEW QUESTION # 38
What is the function of a pre-amplifier in an optical network?

- A. Through the pre-amplifier, the optical signal is amplified at the receiver side after it travels along the fiber from another node.
- B. Through the pre-amplifier, the optical signal is amplified within the node internally to recover internal losses due, for instance, to cascaded filters.
- C. Through the pre-amplifier, the optical signal is amplified at the transmitter side before it is sent to the line span.
- D. Through the pre-amplifier, the optical signal is amplified both the receiver side and at the transmitter side.

Answer: C

Explanation:
A pre-amplifier is an optical amplifier that is used to boost the power of the received optical signal before it is detected by the receiver in an optical communication system. This is done to overcome the loss of power that occurs as the signal travels through the optical fiber and to ensure that the receiver can detect the signal. The pre-amplification stage is typically located close to the receiver in order to minimize the distance that the signal has to travel between the amplifier and the receiver, which helps to reduce the noise and distortion in the signal.

NEW QUESTION # 39
Which of the following statements about Optical Add/Drop Multiplexers (OADMs) is FALSE?

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

Answer: B

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 # 40
Which application generates the commissioning file(s)?

- A. EPT
- B. NFM-T
- C. CPB
- D. NSP

Answer: C

Explanation:
The CPB (Commissioning Parameter Builder) application is used to generate the commissioning files for a Nokia 1830 Photonic Service Switch (PSS-1). The CPB application allows the user to create multiple commissioning files [1][2], which can be used to configure a variety of different features on the device. The CPB also allows users to view, edit and modify the commissioning files before they are uploaded to the device. The NSP (Network Service Platform) and EPT (Element Provisioning Tool) are used to manage the devices and network elements within the network, but do not generate commissioning files.

NEW QUESTION # 41
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