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Nokia Optical Networking Fundamentals Sample Questions (Q38-Q43):

NEW QUESTION # 38

What is the main function of an optical amplifier?

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

Answer: A

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 # 39

Is it possible to select the fiber type independently for each segment while designing a network in EPT?

- A. Yes, during the segment creation phase or editing
- B. Yes, during the link creation through the wizard
- C. No, a unique type is allowed per design for all segments
- D. No, as the fiber type is selected for links only and it's one for whole design

Answer: A

Explanation:

Yes, during the segment creation phase or editing. It is possible to select the fiber type independently for each segment while designing a network in EPT. This can be done during the segment creation phase or when editing an existing segment. This allows for more flexibility when designing the network and allows for more efficient use of resources.

NEW QUESTION # 40

Which macro steps can be executed via CPB?

- A. Node supervision, system validation and system provision
- B. Node creation, systems validation and system provisioning
- C. Power adjustment and generation of the system loss report
- D. Systems validation, system provisioning, power adjustment

Answer: B

Explanation:

Node creation, systems validation and system provisioning. The CPB (Commissioning Parameter Builder) application is used to generate commissioning files for a Nokia 1830 Photonic Service Switch (PSS-1) and can be used to create new nodes, validate the system configuration, and provision the system with the appropriate settings and parameters. Power adjustment and generation of system loss report are not related to CPB.

NEW QUESTION # 41

Which type of ports are present in the Colorless Wavelength Router (CWR)?

- A. Colorless bi-directional ports
- B. Colorless uni-directional ports only
- C. DeMux ports
- D. Black and white ports

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

In the Nokia 1830 PSS (Photonic Service Switch) architecture, the Colorless Wavelength Router (CWR) is a specialized module

used within ROADM nodes to enable "colorless" add/drop capabilities. Traditional static multiplexers, like the SFD (Static Filter Device), use fixed-wavelength ports where a specific port is hard-wired to a specific frequency (color). In contrast, a CWR allows any wavelength to be added or dropped from any of its ports.

The ports on a CWR are bi-directional. This means that a single physical port on the CWR card handles both the transmit (Tx) and receive (Rx) paths for a specific wavelength, typically connecting to a transponder's line-side interface. This bi-directional design simplifies fiber management within the shelf and is a key requirement for the "Colorless" attribute of modern flexible grids. By utilizing CWR modules, operators can remotely retune a transponder to a different frequency without needing a technician to physically move fiber patches to a different port on a multiplexer, significantly increasing operational efficiency and reducing human error during service provisioning or restoration.

NEW QUESTION # 42

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. alm**
- C. retrieve alarms
- D. display alarms

Answer: B

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 # 43

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