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Nokia Optical Networking Fundamentals Sample Questions (Q14-Q19):

NEW QUESTION # 14

With reference to the power budget, what is the meaning of receiver dynamic range?

- A. It is the minimum power to be received for a given BER.
- **B. It is the range between the receiver overload power and its sensitivity.**
- C. It is the maximum receiver power to prevent an overload.
- D. It is the range between the maximum transmit power and the minimum transmit power.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

In the design of a Nokia 1830 PSS optical link, the receiver dynamic range is a critical parameter for ensuring error-free transmission. It defines the "window" of optical power within which a receiver (such as an SFP, XFP, or coherent line port) can accurately interpret the incoming signal. The lower bound of this range is the Sensitivity, which is the minimum optical power required to achieve a specific Bit Error Ratio (BER). If the power drops below this level, the signal is "lost in the noise." The upper bound is the Overload power (or saturation point), which is the maximum power the receiver can handle before the photo-detector becomes saturated, leading to signal distortion and errors. The dynamic range is the mathematical difference between these two points (expressed in dB). For a network to operate reliably, the calculated power at the end of a fiber span must fall comfortably within this dynamic range. If the signal is too weak, an amplifier is needed; if it is too strong (exceeding the overload point), an optical attenuator must be used to bring the power back into the dynamic range.

NEW QUESTION # 15

Which of the following are the main reasons for fiber attenuation?

- A. Small channel spacing
- B. Refraction and reflection
- **C. Scattering and absorption**
- D. Chromatic dispersion (CD) and polarization mode dispersion

Answer: C

Explanation:

Scattering and absorption are the main reasons for fiber attenuation. Scattering occurs when light bounces off the sides of the fiber, while absorption happens when light is absorbed by the glass or other materials that make up the fiber. Chromatic dispersion (CD) and polarization mode dispersion (PMD) are also factors that can cause attenuation, but they are not the main causes. Small channel spacing can also cause attenuation, but it is a secondary factor and is only significant in certain cases.

NEW QUESTION # 16

Which of the following is NOT a troubleshooting functionality of the Wavelength Tracker?

- A. Performing channel power monitoring.
- **B. Testing a node's internal fiber connectivity before service provisioning.**
- C. Detecting unexpected or missing channels.
- D. Tracing a service along an optical path.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

The Nokia Wavelength Tracker is a unique and powerful technology used within the 1830 PSS portfolio to provide "layer 0" visibility. It works by embedding unique optical signatures (keys) onto each wavelength at the source (transponder). These signatures allow the system to identify and monitor individual channels as they traverse the optical network without the need for expensive Optical Spectrum Analyzers (OSAs) at every site.

Specifically, the Wavelength Tracker enables tracing a service along its path by identifying these unique keys at various monitoring points. It also excels at channel power monitoring, as it can measure the power level of each specific wavelength independently. Furthermore, it is instrumental in detecting unexpected or missing channels (ghost signals or misrouting) by comparing the detected keys against the expected provisioning data in the management system. However, it is not used for testing a node's internal fiber connectivity before service provisioning. Internal fiber connectivity is typically verified during the commissioning phase using the Commissioning and Power Balancing (CPB) tool within WS-NOC or through manual physical inspection and "fiber-it" procedures.

Wavelength Tracker requires an active, keyed optical signal to function, which generally exists only during or after the service provisioning stage.

NEW QUESTION # 17

Which use case is most suitable for the deployment of a star topology?

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

Answer: D

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 # 18

How does a Raman pump work in the 1830 specific implementation?

- A. The pump light travels in the same direction of the signal, amplifying it while it flows in the fiber towards the following node.
- **B. The pump light travels in the opposite direction of the signal to be amplified, amplifying it while it arrives from the adjacent node.**
- C. As the incoming signal power increase, the gain of the amplifier is reduced.
- D. The amplification is done simultaneously for all channels as they enter the board.

Answer: B

Explanation:

In Raman amplification, a pump laser is used to excite the Raman-active molecules in the fiber, which then amplifies the signal light as it travels in the opposite direction. In the 1830 specific implementation, the pump laser is typically a high-power laser that is launched into the fiber in the opposite direction to the signal. The pump light interacts with the Raman-active molecules in the fiber, which then amplifies the signal light as it travels in the opposite direction. This allows the Raman pump to provide a gain that increases with distance, which can be used to compensate for the loss of signal power as it travels through the fiber.

NEW QUESTION # 19

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