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## Nokia Optical Networking Fundamentals Sample Questions (Q35-Q40):

### NEW QUESTION # 35

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

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

**Answer: C**

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 # 36

How many PM bins can be stored, for each data collection point, on PSS systems?

- A. 4 x 15-min bins and 1 x 1-day bin.
- B. 200 x 15-min bins, 90 x 1-day bins and 1 raw bin.
- **C. 33 x 15-min bins, 8 x 1-day bins and 1 raw bin.**
- D. 120 x 15-min bins, 60 x 1-day bins and 1 raw bin.

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

Performance Monitoring (PM) is critical for maintaining the health of a Nokia 1830 PSS network. The system collects data such as FEC corrected bits, optical power levels, and ODU-layer errors. According to Nokia's standard node management architecture, each data collection point (such as an optical port or an ODU termination point) stores a specific number of historical "bins" locally on the card or the shelf controller.

The standard storage capacity for these PM statistics is 33 x 15-minute bins (covering the last 8 hours and 15 minutes of granular data) and 8 x 1-day bins (covering the last week of daily totals). Additionally, there is 1 raw bin which contains the "current" accumulating data that has not yet been shifted into a completed 15-minute or 24-hour historical bin. This allows network operators using WS-NOC (WaveSuite Network Operations Center) to retrieve recent historical performance data directly from the NE (Network Element) even if the management system was temporarily disconnected. If longer-term history is required, the management system must be configured to poll and archive these bins into its own database before they are overwritten on the hardware.

### NEW QUESTION # 37

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

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

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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 # 38

What is an optical switch?

- A. A device that converts optical signal to electrical to allow switching through the electrical matrix, and then again to optical towards the next card (and versa).
- **B. A device that selectively transfers an optical signal from one port to another.**
- C. A device that groups multiple lambdas in one multiplexed signal.
- D. A device that selectively transfers an optical ODU frame from one port to another.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

In the context of optical networking fundamentals, an optical switch (often referred to as a Photonic Switch or Layer 0 switch) is defined as a device that routes an optical signal-composed of photons-from an input port to one or more output ports without converting it into an electrical signal. This process is known as transparent switching. It operates entirely within the optical domain,

maintaining the integrity of the lightwave regardless of the data rate or protocol being carried (e.g., SDH, Ethernet, or OTN). It is important to distinguish this from Option D, which describes an Electrical or ODU Switch (Layer 1). In a device like the Nokia 1830 PSS-24x, signals are converted to electrical format (O-E-O) to be switched at the ODU (Optical Data Unit) level via a central fabric. While this provides "any-to-any" grooming, a true optical switch (like a WSS found in ROADMs) simply steers the light. The primary advantage of an optical switch is its ability to handle massive amounts of bandwidth with extremely low latency and lower power consumption compared to electrical switching, as it avoids the overhead of repeated O-E-O conversions at intermediate network nodes.

### NEW QUESTION # 39

What is the purpose of the validate step in the EPT design process?

- A. During this step, the configuration available on the involved network elements is compared with the design provided by EPT.
- B. This step is optional and is useful to verify the network element layout before going through the commission step.
- C. During this step, the run design action is triggered for network design consistency check and errors fixing.
- D. This step is used to measure optical power performances over an existing network before making changes.

**Answer: C**

Explanation:

The validate step in the EPT design process is used to trigger the run design action, which is responsible for verifying the consistency of the network design and fixing any errors that may exist. During the validation process, the system will compare the configuration available on the involved network elements and the design provided by EPT, and any discrepancies will be flagged for further investigation or correction.

### NEW QUESTION # 40

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