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Nokia Optical Networking Fundamentals Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which of the following statements is true about chromatic dispersion (CD)?

- A. Different channels have different bandwidth and this causes different CD performances.
- B. The fiber attenuation introduces inter-channel interference.
- C. Different wavelengths propagate at different speeds within the same media and therefore different colors travel in the fiber with different speed.
- D. The fiber attenuation changes along the fiber, and when the light crosses these differences the CD takes place.

Answer: C

Explanation:

Different wavelengths propagate at different speeds within the same media and therefore different colors travel in the fiber with different speed. This phenomenon is known as chromatic dispersion and causes light to spread out as it travels through the fiber over distance, leading to signal attenuation and distortion. The fiber attenuation does not introduce inter-channel interference, but it can cause attenuation of the signal. Different channels have different bandwidths, but this does not affect CD performance.

NEW QUESTION # 21

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

Answer: D

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 # 22

Which of the following statements about coherent transmission in WDM technology is TRUE?

- A. At each receiver, a dispersion compensation unit is often necessary, depending on the fiber length.
- B. The channel allocation is flexible, according to the channel size of the signals.
- **C. Coherent systems need carrier phase information at the receiver.**
- D. Only multi-mode fibers can be used with coherent transmissions.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

Coherent transmission represents a massive leap in optical technology, moving beyond simple "on-off keying" (Intensity Modulation) to more complex modulation formats like QPSK or 16-QAM. A fundamental requirement of a coherent receiver is the ability to recover and track the carrier phase information of the incoming signal. This is achieved by using a Local Oscillator (LO) laser at the receiver that interferes with the incoming signal, allowing the receiver to extract phase and polarization data.

Unlike legacy 10G direct-detection systems, coherent systems (like Nokia's PSE-V engine) perform Digital Signal Processing (DSP) to electronically compensate for impairments. This makes Option D false, as physical Dispersion Compensation Modules (DCMs) are actually detrimental and usually removed in coherent networks. Option B is incorrect as coherent transmission is designed for Single-Mode Fiber (SMF). Option C refers to Flex-grid technology; while coherent signals often use Flex-grid, the defining characteristic of coherent technology is the phase-sensitive detection at the receiver.

NEW QUESTION # 23

Which macro steps can be executed via CPB?

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

Answer: A

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 # 24

Which of the following statements best describes the definition of PCT?

- A. A tool to validate internal fiber connectivity on CDC-F 2.0 nodes.
- B. A tool supporting nodes' automatic provisioning on NFM-T.
- C. A tool supporting external links autodiscovery on NFM-T.
- D. A tool supporting zero-touch power management on PSS-32 equipment.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

The Photonic Connectivity Tool (PCT) is a specialized utility within the Nokia 1830 PSS ecosystem designed specifically for modern, complex node architectures. As networks evolved toward CDC-F (Colorless, Directionless, Contentionless with Flex-grid), the internal fiber cabling within a single node became significantly more complex, involving numerous connections between WSS modules, Multicast Switches (MCS), and amplifiers.

The PCT is used to validate internal fiber connectivity, ensuring that the physical "patching" matches the intended design before service provisioning begins. It leverages the OSRP (Optical Signal Routing Protocol) or specialized control plane mechanisms to verify that light can flow through the internal cross-connects as expected. This tool is essential for reducing human error during the installation of high-degree ROADM sites, where dozens of internal fibers must be correctly mapped to ensure the "Directionless" and "Contentionless" features function without blocking.

NEW QUESTION # 25

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