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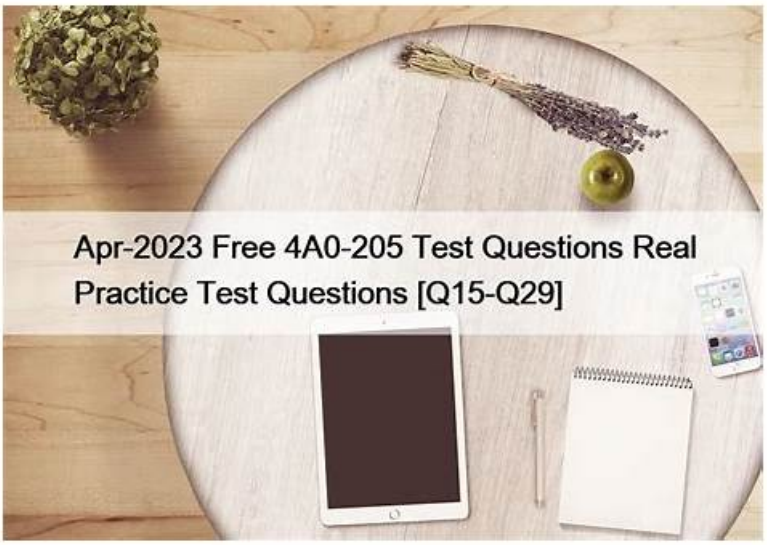

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The Nokia Optical Networking Fundamentals certification is ideal for network engineers, technicians, and professionals who want to enhance their knowledge and skills in optical networking. Nokia Optical Networking Fundamentals certification will help them understand the fundamental concepts of optical networking, including fiber optic cabling, wavelength division multiplexing (WDM), and optical amplification. This knowledge will enable them to design, deploy, and manage optical networks effectively, leading to higher productivity and efficiency.

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Nokia Optical Networking Fundamentals Sample Questions (Q32-Q37):

NEW QUESTION # 32
Which type of ports are present in the Colorless Wavelength Router (CWR)?

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

- D. DeMux ports

Answer: C

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 # 33
Which of the following statements about coherent transmission in WDM technology is TRUE?

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

Answer: A

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 # 34
Which of the following is NOT a troubleshooting functionality of the Wavelength Tracker?

- A. Detecting unexpected or missing channels.
- B. Testing a node's internal fiber connectivity before service provisioning.
- C. Performing channel power monitoring.
- 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 # 35
Where can the user set the long-haul WT decoder parameter, when designing a network with EPT?

- A. In the optimization parameters
- B. In the audit menu
- C. In the NE parameters
- D. In the network parameters

Answer: C

Explanation:
The long-haul WT decoder parameter can be set in the NE parameters when designing a network with EPT. This parameter is used to adjust the sensitivity of the decoder and can help to improve the accuracy of the measurements for long-haul WTs.
The Network Element (NE) parameters in EPT (Element Planning Tool) are used to configure various settings and options for the network elements in the network. The long-haul WT decoder parameter is one such setting that can be configured in the NE parameters section. The user can access the NE parameters by navigating to the NE Parameters menu within the EPT interface. The user can then select the appropriate network element and modify the settings as needed. This information can be found in the Nokia guide for EPT.

NEW QUESTION # 36
Which of the following statements about the ODUk unit is TRUE?

- A. The ODUk is the basic payload that can be electronically groomed and switched in the OTN network.
- B. The ODUk is the first container in which the client signal is inserted.
- C. The ODUk contains the FEC.
- D. The ODUk is processed at an optical level.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:
In the Optical Transport Network (OTN) hierarchy, the ODUk (Optical Data Unit of order k) is the fundamental unit for electronic grooming and switching. Unlike the OTUk layer, which is tied to a specific physical optical interface and includes the Forward Error Correction (FEC), the ODUk layer is "path-oriented." This means that in a switched WDM system like the Nokia 1830 PSS-24x, the ODUk containers can be switched across a backplane from one line card to another without needing to deconstruct the entire optical signal.
To clarify the other options: Option A is false because FEC is part of the OTUk (Transport Unit) layer. Option C is false because ODUk processing is entirely electrical (O-E-O must occur to access the ODUk overhead). Option D is false because the OPU (Optical Payload Unit) is actually the "first" container where the client signal is mapped; the ODUk then wraps around the OPU to add path-level monitoring and maintenance signals. Therefore, the ODUk acts as the "virtual container" that allows the network to manage services end-to-end across multiple optical spans.

NEW QUESTION # 37
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