

100% Pass 2026 New 4A0-205 Exam Name - Nokia Optical Networking Fundamentals Exam Practice



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Nokia Optical Networking Fundamentals Sample Questions (Q60-Q65):

NEW QUESTION # 60

Which application generates the commissioning file(s)?

- A. NFM-T
- B. EPT
- C. NSP
- **D. CPB**

Answer: D

Explanation:

The CPB (Commissioning Parameter Builder) application is used to generate the commissioning files for a Nokia 1830 Photonic Service Switch (PSS-1). The CPB application allows the user to create multiple commissioning files [1][2], which can be used to configure a variety of different features on the device. The CPB also allows users to view, edit and modify the commissioning files before they are uploaded to the device. The NSP (Network Service Platform) and EPT (Element Provisioning Tool) are used to manage the devices and network elements within the network, but do not generate commissioning files.

NEW QUESTION # 61

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

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

Answer: A

NEW QUESTION # 62

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

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

Answer: B

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 # 63

When monitoring the quality of the received signal in WDM, an open eye indicates:

- A. High distortion
- **B. Low noise**

- C. Presence of high inter-symbolic interference
- D. High jitter

Answer: B

Explanation:

An open eye pattern indicates that the signal is not affected by noise, and the received signal is of high quality. This is because an open eye pattern is the result of a signal that is aligned in time, and is not affected by noise or other distortions.

Reference:

"Optical Fiber Communications" by Gerd Keiser

"Fiber-Optic Communications Technology" by Djafar K. Mynbaev

"Optical Communications" by Gerd Keiser

NEW QUESTION # 64

What is the function of a pre-amplifier in an optical network?

- A. Through the pre-amplifier, the optical signal is amplified at the receiver side after it travels along the fiber from another node.
- B. Through the pre-amplifier, the optical signal is amplified both the receiver side and at the transmitter side.
- C. Through the pre-amplifier, the optical signal is amplified within the node internally to recover internal losses due, for instance, to cascaded filters.
- **D. Through the pre-amplifier, the optical signal is amplified at the transmitter side before it is sent to the line span.**

Answer: D

Explanation:

A pre-amplifier is an optical amplifier that is used to boost the power of the received optical signal before it is detected by the receiver in an optical communication system. This is done to overcome the loss of power that occurs as the signal travels through the optical fiber and to ensure that the receiver can detect the signal. The pre-amplification stage is typically located close to the receiver in order to minimize the distance that the signal has to travel between the amplifier and the receiver, which helps to reduce the noise and distortion in the signal.

NEW QUESTION # 65

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