

Reading The Valid Exam 4A0-205 Vce Free Means that You Have Passed Half of Nokia Optical Networking Fundamentals



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Nokia Optical Networking Fundamentals Sample Questions (Q40-Q45):

NEW QUESTION # 40

Which of the following statements about Wavelength Tracker monitoring points in CDC-F architecture is TRUE?

- A. Wavelength Tracker monitoring points are settled on ITL mux interfaces and on OTs line interfaces.
- **B. Wavelength Tracker monitoring points are settled on IRDMxx line interfaces and on CWR CLS interfaces.**
- C. Wavelength Tracker monitoring points are settled on IRDMxx line interfaces only.
- D. Wavelength Tracker monitoring points are settled on IRDMxx and OTs line interfaces.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

In a CDC-F (Colorless, Directionless, Contentionless, Flex-grid) architecture, the placement of monitoring points is vital for end-to-end visibility of wavelengths. Nokia's Wavelength Tracker technology relies on these points to detect the unique "keys" or signatures associated with each wavelength. In a CDC-F node, the primary monitoring points are located on the IRDMxx (Intelligent Reconfigurable Demultiplexer/Mux) line interfaces and the CWR (Colorless Wavelength Router) CLS (Colorless) interfaces.

The IRDM monitoring points allow the system to verify the power and presence of wavelengths as they enter or leave the fiber spans (degrees). The CWR CLS monitoring points are critical because they provide visibility at the "Colorless" add/drop stage. By having monitoring at both locations, the WaveSuite Network Operations Center (WS-NOC) can pinpoint exactly where a signal loss or power degradation is occurring-whether it's in the external fiber plant or within the internal colorless switching fabric of the ROADM. This granular visibility is what allows Nokia's "Power Management" to automate balancing across complex mesh topologies.

NEW QUESTION # 41

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. As the incoming signal power increase, the gain of the amplifier is reduced.
- **D. The pump light travels in the opposite direction of the signal to be amplified, amplifying it while it arrives from the adjacent node.**

Answer: D

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 # 42

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

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

Answer: A

NEW QUESTION # 43

Which of the following sentences about FlexGrid is false?

- A. The FlexGrid is currently standardized by ITU-T.
- **B. FlexGrid systems use specific sets of boards. Old generation WDM systems need to be upgraded to support FlexGrid.**
- C. FlexGrid allows a more efficient channel spacing.
- D. Channels in FlexGrid systems are allocated with a granularity of 27.5GHz.

Answer: B

Explanation:

FlexGrid is a flexible grid technology that allows for variable channel spacing and bandwidth allocation. It uses the same sets of boards as the traditional fixed grid systems and it does not require upgrading the old generation WDM systems.

Reference:

"Flexible Grid Optical Networks: From Concepts to Realizations" by Diomidis S. Michalopoulos and George K. Karagiannidis

"Flexible Grid and Flexible Spectrum Optical Networks" by Diomidis S. Michalopoulos and George K. Karagiannidis

"Flexible Grid Optical Networks" by Diomidis S. Michalopoulos and George K. Karagiannidis

NEW QUESTION # 44

Which sentence about NFM-T is correct?

- A. NFM-T fully supports optical and IP nodes
- B. NFM-T fully supports LO, LI, L2 and GMPLS applications and it is mainly focused on 1830 PSS, as well as other older product families
- C. NFM-T is used to provision optical services having IP nodes as extremities
- D. NFM-T is used to design and manage optical network

Answer: C

Explanation:

NFM-T is a network management system designed to manage optical networks in a unified manner. It is used to design, manage, and provision optical services having IP nodes as extremities. It supports a variety of technologies, including optical and IP, and fully supports LO, LI, L2, and GMPLS applications. It is mainly focused on the Nokia 1830 PSS product family, as well as other older product families.

NEW QUESTION # 45

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