

Three in Demand Nokia 4A0-205 Exam Questions Formats



Practice Exam Questions for Nokia Optical Networking Fundamentals (exam number: 4A0-205)

The following questions will test your knowledge and help prepare you for the Nokia Optical Networking Fundamentals exam. Compare your responses with the Answer Key at the end of the document.

1. Which component characterizes a ROADM block?
 - a. A static filter
 - b. Two static filters and an interleaver
 - c. At least two amplifiers
 - d. A WR tunable circuit pack
2. Is it possible to modify the FEC (Forward Error Correction) settings during a service creation?
 - a. No, as the transponders configure a FEC type by default. Anyway, it is possible to change the FEC type afterwards
 - b. Yes, but only if coherent transponders are used for the service being created
 - c. Yes, and it can be different for each service
 - d. Yes, but it must be the same for each service flowing into the same line span
3. Which of the following is true about WDM amplification?
 - a. Only CWDM systems can be amplified
 - b. Only DWDM systems can be amplified, in both C and L bands
 - c. Both CWDM and DWDM systems can be amplified, in all transmission bands
 - d. Only DWDM systems can be amplified, but only in C band
4. In an optical fiber communication system, what is the DCM?
 - a. A dedicated network used for in-band node management through a Network Management System
 - b. A specific unit used to compensate the cumulative chromatic dispersion
 - c. A customer shelf with several interfaces used to interconnect several local nodes
 - d. A device used to compensate the nonlinear effects originated by long-haul spans

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Practice exam
Nokia Optical Networking Fundamentals - 4A0-205

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Nokia Optical Networking Fundamentals Sample Questions (Q54-Q59):

NEW QUESTION # 54

A user needs to check for interface details against the commands is the correct one?

- A. config card 11star1a interface 1/17 detail
- B. 11star1a 1/17 port-detail
- C. config interface detail 1/17/L1
- D. show interface 11star1a 1/17/L1 detail

Answer: D

Explanation:

show interface 11star1a 1/17/L1 detail is the correct command to check for interface details. This command will display detailed information about the specified interface, including its status, configuration, and statistics.

NEW QUESTION # 55

Which sentence about NFM-T is correct?

- A. NFM-T is used to provision optical services having IP nodes as extremities
- B. NFM-T is used to design and manage optical network
- C. 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
- D. NFM-T fully supports optical and IP nodes

Answer: A

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 # 56

Which of the following statements about the ODUk unit is TRUE?

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

Answer: D

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 # 57

What is the block that converts the colorless (or black and white) client signal to a specific optical channel in a WDM system?

- A. Dispersion compensation module (DCM)
- **B. Optical transponder (OT)**
- C. Static filter device (SFD)
- D. Wavelength router (WR)

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

The Optical Transponder (OT) is the essential interface component in a WDM system that bridges the gap between the client-side equipment and the WDM line-side. Client signals, often referred to as "colorless" or "black and white" because they typically use standard 1310nm or 1550nm short-reach optics, cannot be directly multiplexed into a DWDM fiber because they would interfere with one another.

The Transponder performs an O-E-O (Optical-Electrical-Optical) conversion process: it receives the client's optical signal, converts it to an electrical format to perform 3R functions (Re-amplification, Re-shaping, and Re-timing) and often wraps it into an OTN (Optical Transport Network) frame, and then re-transmits it using a high-precision, ITU-T grid-compliant colored wavelength. In the Nokia 1830 PSS portfolio, these can be dedicated transponders for a single high-speed service or Muxponders, which aggregate multiple lower-speed client signals into a single high-speed "colored" line interface. Other components like the SFD are used for multiplexing those colors, and the DCM is used for managing fiber impairments, but only the Transponder performs the initial frequency conversion.

NEW QUESTION # 58

What is a Shared Risk Group (SRG)?

- A. A set of boards that share the same failure risk
- B. A set of fibers that share the same latency risk
- **C. A set of network resources that share a common failure risk**
- D. A set of nodes that share a common risk of hardware failure

Answer: C

Explanation:

According to the Nokia Optical Networking documentation, a Shared Risk Group (SRG) is defined as "a set of network resources that share a common failure risk. When a resource in an SRG fails, the other resources in the group are also affected." This can include fibers, boards, nodes, and other network resources. The SRG concept is used in network design and protection mechanisms to ensure survivability and minimal impact on service in case of a failure.

NEW QUESTION # 59

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