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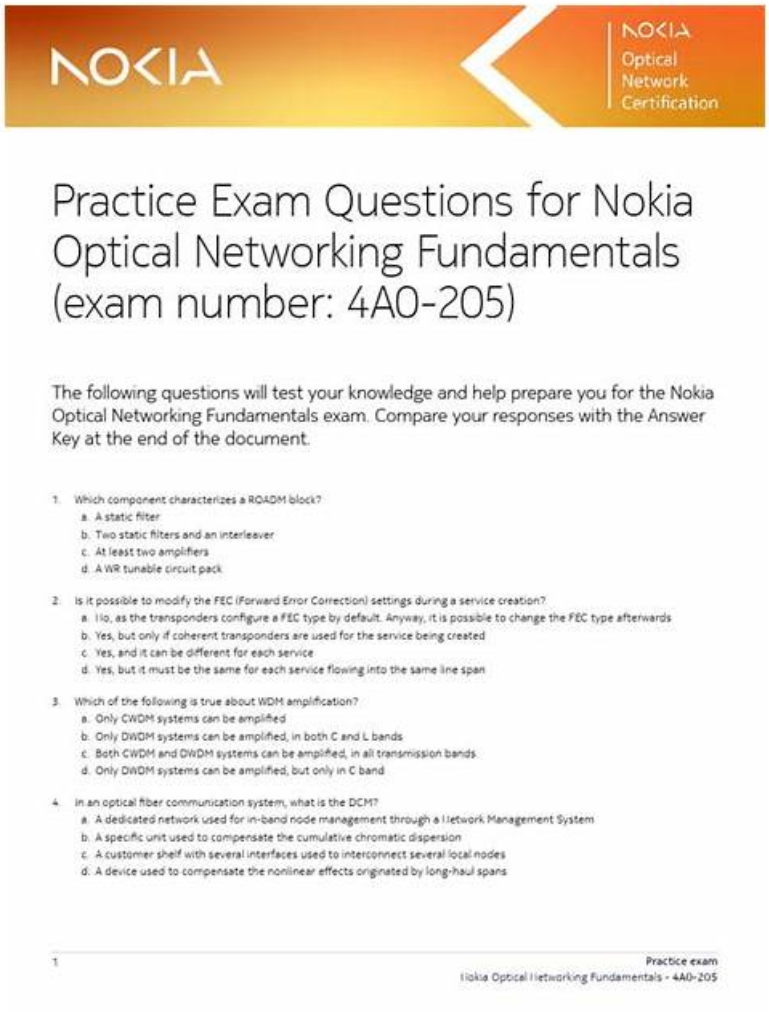
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Practice Exam Questions for Nokia Optical Networking Fundamentals (exam number: 4A0-205)

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

1 Practice exam
Nokia Optical Networking Fundamentals - 4A0-205

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Earning the Nokia 4A0-205 certification provides a competitive advantage in the telecommunications industry. Nokia Optical Networking Fundamentals certification demonstrates to employers that you have the necessary skills and knowledge to design, deploy, and maintain optical networks using Nokia equipment. Additionally, the certification can lead to higher salary packages and better job opportunities.

Nokia 4A0-205 exam is a vendor-neutral certification that provides candidates with a comprehensive understanding of optical networking. Nokia Optical Networking Fundamentals certification is suitable for professionals who are interested in developing their skills in optical networking, and it is recognized globally by employers. Nokia Optical Networking Fundamentals certification covers all aspects of optical networking, including the fundamentals of optical networking, optical transmission systems, optical switching, and optical network design.

Nokia 4A0-205 Exam is a rigorous and challenging exam that requires significant preparation and study. It is designed to test an individual's knowledge and skills in optical networking and requires a thorough understanding of the concepts, technologies, and best practices used in the industry. 4A0-205 exam consists of multiple-choice questions and covers various topics, including optical networking basics, network design, network management, and network security. Individuals who pass the exam will have

demonstrated their ability to implement, manage, and troubleshoot optical networks effectively.

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Nokia Optical Networking Fundamentals Sample Questions (Q21-Q26):

NEW QUESTION # 21
Which of the following statements about the contentionless feature on a CDC-F node is TRUE?

- A. It represents the ability to reroute lambdas to any direction.
- B. It represents the ability to drop any lambda from any Add/Drop block port.
- C. It represents the ability to support the Fixed Grid standard.
- D. It represents the ability to drop the same wavelength from different degrees.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:
The term CDC-F stands for Colorless, Directionless, Contentionless, and Flex-grid. While "Colorless" allows any wavelength on any port and "Directionless" allows any port to be routed to any output fiber (degree), Contentionless solves a specific physical limitation of traditional multiplexers. In a standard ROADM, you cannot drop the same wavelength (e.g., Channel 21) from two different directions (e.g., North and West) into the same add/drop structure because they would "contend" or collide on the same internal fiber.
A Contentionless architecture (typically utilizing a Multicast Switch or MCS) allows the node to drop the same wavelength from different degrees simultaneously without interference. This is critical for high-availability mesh networks where a single transponder might need to receive a specific wavelength from a primary path and a backup path. Without contentionless capabilities, operators would have to carefully manage wavelength assignments across the entire network to ensure no two identical frequencies ever meet at the same drop structure, which significantly complicates planning and restoration.

NEW QUESTION # 22
Which use case is most suitable for the deployment of a star topology?

- A. Access networks, for collecting traffic towards the main central node
- B. Backbone networks, for supporting protection routes
- C. ASON networks, to protect traffic via GMPL5 protocols
- D. SNCP-protected links

Answer: A

Explanation:
A star topology is a network design where all devices are connected to a central hub, which acts as a central point of control and management for the network. This type of topology is commonly used in access networks, where a central node is used to aggregate traffic from multiple users or devices, and then forward it to the core network. This design allows for efficient use of resources and easy management of the network.
Reference:
"Computer Networking: A Top-Down Approach" by James Kurose and Keith Ross (Chapter 3)
"Data Communications and Networking" by Behrouz A. Forouzan (Chapter 2)

NEW QUESTION # 23
Which of the following statements is true?

- A. Logs report both active and historical events.
- B. Alarms and conditions report a real time status of the node.
- C. Logs report a real time status of the node.
- D. Alarms and conditions report only historical status of the node.

Answer: A

Explanation:
A log is a record of events that have occurred within a system, such as a network device or an application. Logs can include information about system activity, configuration changes, and error messages. They can be used for troubleshooting, auditing, and compliance purposes. Logs can report both active (real-time) and historical events that have occurred within a system.
Alarms and conditions, on the other hand, are used to notify operators of real-time status of the node, such as when a threshold is breached or when a specific event occurs. Alarms and conditions are typically used to provide real-time notifications of potential problems or issues, while logs are used to provide a historical record of what has occurred.

NEW QUESTION # 24
What is the definition of OSNR?

- A. The OSNR is the ratio between the optical output signal power and the optical input signal power of the device being analyzed.
- B. The OSNR is defined as the ratio between the optical signal power (including noise) and the optical noise power over a specific spectral bandwidth.
- C. The OSNR is defined as the ratio between the average optical signal power and the average optical noise power over a specific spectral bandwidth.
- D. The OSNR is defined as the ratio between the transmitted optical power and the received optical power over 1 km of fiber including both signal and optical noise.

Answer: C

Explanation:
The OSNR is defined as the ratio between the average optical signal power and the average optical noise power over a specific spectral bandwidth. This is also known as the signal-to-noise ratio (SNR), and it is a measure of how much signal is present in the optical signal compared to the noise, usually expressed in decibels (dB).

NEW QUESTION # 25
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 # 26

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