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Nokia 4A0-205, also known as Nokia Optical Networking Fundamentals Exam, is a certification exam designed to test an individual's knowledge and skills in the field of optical networking. 4A0-205 exam is targeted towards professionals who are interested in building a career in optical networking, such as network engineers, network architects, and technicians. 4A0-205 Exam is designed to cover a wide range of topics, including optical networking concepts, network design, and operation principles.

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Nokia Optical Networking Fundamentals Sample Questions (Q35-Q40):

NEW QUESTION # 35
With reference to trails and services, which of the following sentences is correct?

- A. A trail can interconnect three ports, while a service always two.
- B. Services are transported over trails; that is, services are clients with respect to trails.
- C. Trails are transported over services; that is, trails are clients with respect to services.
- D. A service is always associated to a single wavelength, while a trail can involve multiple wavelengths.

Answer: B

Explanation:
Services are transported over trails; that is, services are clients with respect to trails. A service is a logical connection that is used to transport data from one point to another. It is created over a trail, which is a physical connection that is established by using multiple wavelengths. As such, services are clients with respect to trails, as they are transported over them.

NEW QUESTION # 36
What is the main function of an optical amplifier?

- A. Compensating for attenuation through an optical-electrical-optical amplification
- B. Compensating for optical power attenuation
- C. Demodulating the incoming signal
- D. Compensating for chromatic dispersion

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:
The primary function of an optical amplifier in a WDM system is to provide gain to the optical signal to compensate for optical power attenuation (loss) that occurs as light travels through the optical fiber. As photons travel through kilometers of silica fiber, their energy is absorbed or scattered, leading to a reduction in signal strength. To ensure the signal reaches its destination with sufficient power for the receiver to detect it, amplifiers like the EDFA (Erbium-Doped Fiber Amplifier) or Raman amplifiers are placed at strategic intervals along the fiber span.
It is crucial to distinguish this from Option D; modern optical amplifiers perform purely optical amplification, meaning the signal stays in the photonic domain without being converted to electricity (O-E-O). While some specialized amplifiers (like the RA2P) might interact with other parameters, their fundamental job is power restoration. Furthermore, while amplifiers are essential for a network's reach, they do not compensate for chromatic dispersion-that is the job of Dispersion Compensation Modules (DCM) or electronic dispersion compensation (EDC) in coherent transponders-nor do they demodulate signals, which is the role of the receiver in a transponder.

NEW QUESTION # 37
When monitoring the quality of the received signal in WDM, an open eye indicates:

- A. Low noise
- B. High jitter
- C. Presence of high inter-symbolic interference
- D. High distortion

Answer: A

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 # 38
Which application generates the commissioning file(s)?

- A. NSP
- B. EPT
- C. NFM-T
- 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 # 39
What is the meaning of demand in EPT?

- A. Demand refers to one or more client signal.
- B. Demand refers to the required number of trails to be automatically created to meet design requirements.
- C. Demand refers to the amount of OTN interfaces within a single network element.
- D. Demand refers to the required capacity of a single network element in terms of bandwidth.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:
In the context of the Nokia 1830 Engineering and Planning Tool (EPT)-now known as WaveSuite Planner (WS-P)-a Demand is a fundamental planning object that represents the customer's traffic requirement between two or more nodes. Specifically, it refers to one or more client signals that need to be transported across the optical network. When a user defines a demand in EPT, they specify the source and destination nodes, the type of client service (e.g., 10GE, 100GE, or STM-64), the quantity of these services, and the required protection level (e.g., Unprotected, 1+1, or O-SNCP).
The tool uses these defined demands to calculate the most efficient optical path, select the appropriate hardware (transponders and muxponders), and determine the necessary wavelength assignments. While a demand eventually results in the creation of optical trails and utilizes network element capacity, the term itself strictly refers to the input traffic requirement or the client signal(s) that the network is being designed to carry. Without defining demands, the planning tool cannot generate a Bill of Materials (BOM) or perform power balancing simulations, as it wouldn't know the traffic load the physical infrastructure must support.

NEW QUESTION # 40
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