

Nokia Optical Networking Fundamentals certkingdom actual exam dumps & 4A0-205 pdf practice



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Nokia Optical Networking Fundamentals Sample Questions (Q55-Q60):

NEW QUESTION # 55

Which macro steps can be executed via CPB?

- A. Node creation, systems validation and system provisioning
- B. Systems validation, system provisioning, power adjustment
- C. Node supervision, system validation and system provision
- D. Power adjustment and generation of the system loss report

Answer: A

Explanation:

Node creation, systems validation and system provisioning. The CPB (Commissioning Parameter Builder) application is used to generate commissioning files for a Nokia 1830 Photonic Service Switch (PSS-1) and can be used to create new nodes, validate the system configuration, and provision the system with the appropriate settings and parameters. Power adjustment and generation of system loss report are not related to CPB.

NEW QUESTION # 56

Which of the following statements about Optical Add/Drop Multiplexers (OADMs) is FALSE?

- A. OADMs allow the user to terminate specific services through transponders.
- B. OADMs allow the user to pass-through specific services at the wavelength optical level (express channels).
- C. There are two main general classes of OADMs: FOADMs and ROADMs.
- **D. OADMs always require O-E-O conversion when passing-through optical channels.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

In the context of the Nokia 1830 PSS (Photonic Service Switch) and general WDM principles, the statement that OADMs always require O-E-O (Optical-Electrical-Optical) conversion for pass-through channels is fundamentally incorrect. The primary purpose of an OADM is to provide the ability to "add" or "drop" specific wavelengths while allowing other wavelengths (known as express or pass-through channels) to continue through the node entirely in the photonic domain.

By remaining in the optical layer, these express channels avoid the latency and cost associated with O-E-O conversion. FOADMs (Fixed OADMs) use static filters to achieve this, while ROADMs (Reconfigurable OADMs) use Wavelength Selective Switches (WSS) to dynamically route traffic. O-E-O conversion only occurs at the transponder or muxponder level when a service is terminated (dropped) or initiated (added) to convert the client signal into a compliant DWDM wavelength. Therefore, the efficiency of an optical network relies on the fact that pass-through traffic stays as light, bypassing the need for electrical processing at every node.

NEW QUESTION # 57

What is a Shared Risk Group (SRG)?

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

Answer: A

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 # 58

With reference to the power budget, what is the meaning of receiver dynamic range?

- A. It is the maximum receiver power to prevent an overload.
- B. It is the minimum power to be received for a given BER.
- C. It is the range between the maximum transmit power and the minimum transmit power.
- **D. It is the range between the receiver overload power and its sensitivity.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Nokia Optical Networking Fundamentals:

In the design of a Nokia 1830 PSS optical link, the receiver dynamic range is a critical parameter for ensuring error-free transmission. It defines the "window" of optical power within which a receiver (such as an SFP, XFP, or coherent line port) can accurately interpret the incoming signal. The lower bound of this range is the Sensitivity, which is the minimum optical power required to achieve a specific Bit Error Ratio (BER). If the power drops below this level, the signal is "lost in the noise." The upper bound is the Overload power (or saturation point), which is the maximum power the receiver can handle before the photo-detector becomes saturated, leading to signal distortion and errors. The dynamic range is the mathematical difference between these two points (expressed in dB). For a network to operate reliably, the calculated power at the end of a fiber span must fall comfortably within this

dynamic range. If the signal is too weak, an amplifier is needed; if it is too strong (exceeding the overload point), an optical attenuator must be used to bring the power back into the dynamic range.

NEW QUESTION # 59

What is the metro area network?

- A. The metro area network is located between access and core domains.
- **B. The metro area network is that portion of network that passes through a city to provide connections to several customers.**
- C. The metro area network is located in between two access area networks and made of photonic nodes only (no OCS/SWDM nodes are used there).
- D. The metro area network is made of OCS/SWDM nodes only, as no pure photonic nodes are used here.

Answer: B

Explanation:

The Metro Area Network (MAN) is a telecommunications network that spans a metropolitan area and connects multiple local area networks (LANs) or business networks together. It typically covers an area that is larger than a LAN but smaller than a wide area network (WAN). The purpose of a MAN is to provide a high-bandwidth, low-latency communication infrastructure for businesses and other organizations in a metropolitan area.

Reference:

Cisco, "Metro Ethernet Services," <https://www.cisco.com/c/en/us/solutions/service-provider/metro-ethernet-services/index.html>
Techopedia, "Metro Area Network (MAN)," <https://www.techopedia.com/definition/26896/metro-area-network-man>

NEW QUESTION # 60

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