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Nokia 4A0-F10 Exam Syllabus Topics:

Section	Objectives
Access Network	- Quality of Service (QoS) fundamentals - Access network architecture - Optical Line Terminal (OLT) functionality - Multicast protocols for video distribution
Broadband Services	- High-speed Internet services - Intent mapping to network layers - Lightspan service components - Value-added and triple-play services - IPTV services - Intent-Based Networking (IBN) - Voice services
Home Network	- Wi-Fi fundamentals - Home network connectivity - Home network devices - Home network device management
Fixed Networks Management	- NFV and SDN fundamentals - Corteca home device controller - IPFIX telemetry collection - Altiplano SDAN Controller - Nokia SDAN solution - NETCONF and YANG
Introduction to Fixed Networks	- Fixed Wireless Access (FWA) - FTTH concepts and solutions - Broadband access services - Broadband network fundamentals - FTTx concepts and solutions

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Nokia Fixed Networks Fundamentals Sample Questions (Q40-Q45):

NEW QUESTION # 40

What is the primary purpose of vectoring in a DSL access network?

- A. To divide optical power among multiple subscribers
- B. To replace frequency-division duplexing with wavelength-division multiplexing
- C. To cancel far-end crosstalk among coordinated copper lines
- D. To combine two or more copper pairs into one logical connection

Answer: C

Explanation:

DSL vectoring is primarily used to reduce or cancel far-end crosstalk between copper pairs operating within the same cable bundle. Crosstalk can significantly reduce the attainable data rate, particularly with high-frequency technologies such as VDSL2. A vectoring system measures interference among coordinated lines and generates compensating signals that counteract the crosstalk. This can improve connection stability and allow lines to operate closer to their theoretical performance. Vectoring is different from bonding. Bonding combines the capacity of multiple physical copper pairs to increase the aggregate subscriber bitrate. Vectoring also does not divide optical signals because that is the function of a splitter in a passive optical network. Its effectiveness generally depends on coordinating the relevant DSL lines through compatible access equipment.

NEW QUESTION # 41

A service provider combines two copper pairs to increase the available DSL rate for one subscriber. Which technology is being used?

- A. Optical splitting
- B. Vectoring
- C. Bonding
- D. Multicast replication

Answer: C

Explanation:

DSL bonding combines two or more physical copper pairs into a single logical subscriber connection. Traffic is distributed across the available pairs, allowing the aggregate bitrate to increase, provided the individual lines have suitable quality and compatible performance. Bonding can also provide operational benefits where one pair alone cannot deliver the required service rate. It is different from vectoring, which reduces crosstalk among coordinated copper lines by generating compensating signals. Optical splitting divides optical power in a PON and does not combine copper capacity. Multicast replication creates copies of multicast packets for different receiver paths and is unrelated to DSL transmission capacity. Both ends of a bonded DSL connection must support the applicable bonding method and coordinate traffic across the paired lines.

NEW QUESTION # 42

Which Wi-Fi 7 capability allows a compatible device to use more than one frequency-band link as part of the same connection?

- A. Multi-Link Operation
- B. VLAN stacking
- C. Dynamic Bandwidth Allocation
- D. DSL vectoring

Answer: A

Explanation:

Multi-Link Operation is a major Wi-Fi 7 capability that enables compatible devices to establish and coordinate multiple radio links, potentially across frequency bands such as 5 GHz and 6 GHz. Depending on the implementation, traffic can be distributed across links to increase throughput or moved between links to reduce latency and avoid interference. Earlier Wi-Fi generations generally treated a client's band connection more independently. Dynamic Bandwidth Allocation schedules upstream PON capacity, DSL vectoring mitigates copper-pair crosstalk, and VLAN stacking carries multiple VLAN identifiers in Ethernet frames. Multi-Link Operation requires support from both the access point and client. Actual performance also depends on spectrum availability, channel conditions, device capabilities, regulatory constraints, and the capacity of the access point's wired or wireless backhaul.

NEW QUESTION # 43

Which connection is normally used by a Fixed Wireless Access indoor gateway to reach the service provider's access network?

- A. A GPON connection through a passive splitter
- **B. A 4G or 5G radio connection**
- C. An xDSL connection through a DSLAM
- D. An Ethernet subtending connection between OLTs

Answer: B

Explanation:

A Fixed Wireless Access indoor gateway normally uses a 4G or 5G radio connection to reach the service provider's mobile or fixed-wireless access network. Inside the home, the gateway can provide Ethernet and Wi-Fi connectivity to subscriber devices. This separates the wide-area access technology from the in-home distribution technology: cellular radio connects the premises to the operator, while Wi-Fi connects local user devices. A DSLAM is associated with copper-based DSL access, and a passive optical splitter belongs to a PON deployment. A subtending interface connects access nodes rather than a subscriber gateway to a radio network. Depending on the deployment, the FWA gateway may also be remotely provisioned and monitored using an external management platform and standardized CPE-management mechanisms.

NEW QUESTION # 44

Why must a managed ONT or residential gateway be reachable before an Auto Configuration Server can provision it using TR-069?

- A. TR-069 can configure only devices that are physically inside the central office.
- B. TR-069 communicates exclusively through an OLT serial console.
- **C. TR-069 requires an active management session with the device.**
- D. TR-069 writes configuration directly to a passive splitter.

Answer: C

Explanation:

TR-069 enables remote management through communication between customer-premises equipment and an Auto Configuration Server. The device must be powered, operational, and able to establish or participate in a management session before configuration parameters, software information, diagnostics, or status data can be exchanged. An ACS cannot provision a device that is completely offline because no active communication path exists. TR-069 does not configure passive splitters, which contain no management processor or configurable service logic. The managed device can be located at the subscriber premises and does not need to be inside the central office. Communication is carried over the device's network connection rather than exclusively through an OLT serial console. Authentication and protected transport help secure management exchanges between the device and the ACS.

NEW QUESTION # 45

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