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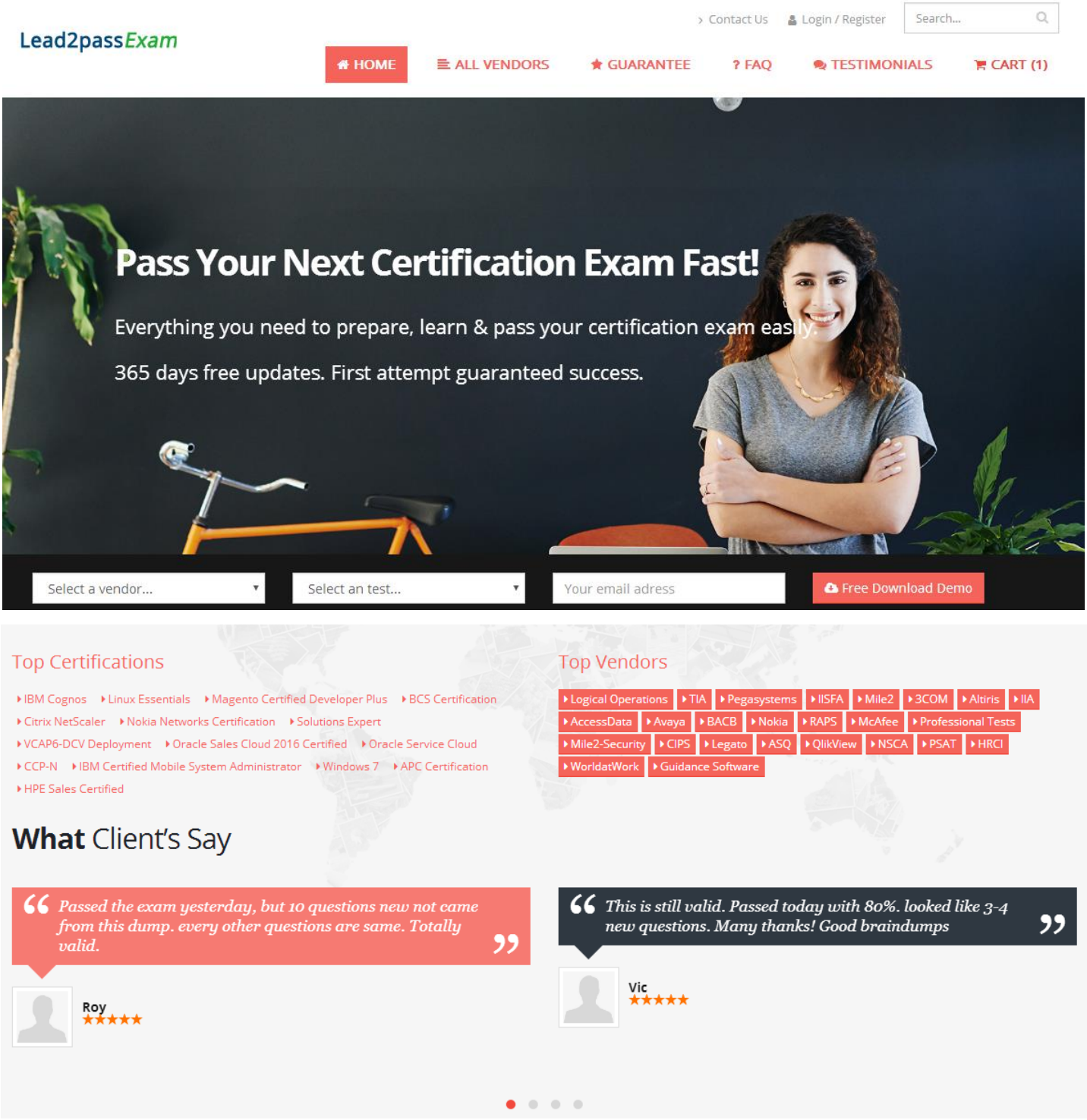

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Exam : **H19-315**

Title : HCSA-Presales-Transmission & Access

Vendor : Huawei

Version : DEMO

NO.1 Huawei's OptiXtrans DC908 product is able to support 400GE service.

A. True

B. False

Answer: A

Explanation:

TheOptiXtrans DC908is a high-performance data center interconnect (DCI) solution that supports400GE (Gigabit Ethernet)services. This capability is critical for modern data centers requiring ultra-high-speed connectivity for applications like cloud computing, big data analytics, and artificial intelligence.

Key details:

* 400GE Support:The DC908 uses advanced line cards (e.g., MD02A) to provide native 400GE interfaces.
* High Capacity:With support for up to 800G per wavelength, the DC908 ensures sufficient bandwidth for 400GE traffic.
* Low Latency:Optimized for minimal delays, ensuring seamless performance for latency-sensitive applications.

Thus, the statement is correct.

References:

* Huawei OptiXtrans DC908 Product Datasheet
* Huawei 400GE Service Deployment Guide

NO.2 Which of the following technologies is used by GPON system to allocate bandwidth to ONU?

A. T-CONT

B. DBA

C. WDM

D. Type B

Answer: B

Explanation:

The correct answer isDBA (Dynamic Bandwidth Allocation). DBA is a critical technology in GPON systems that dynamically allocates upstream bandwidth to Optical Network Units (ONUs) based on their real- time traffic demands. This ensures efficient utilization of the available bandwidth and prevents congestion in the upstream direction.

* T-CONT (Traffic Container):While T-CONT is used to classify and manage different types of traffic (e.g., voice, video, data), it is not responsible for bandwidth allocation.
* WDM (Wavelength Division Multiplexing):WDM is a technology used in optical networks to transmit multiple signals over a single fiber using different wavelengths. It is unrelated to bandwidth allocation in GPON.
* Type B:Refers to a protection mechanism in GPON, not bandwidth allocation.

NO.3 Flex-PON board can support GPON/XG(S)-PON/Combo PON, 3-in-1.

A. True

B. False

Answer: A

Explanation:

The statement isTrue. TheFlex-PON boardis a versatile solution designed to support multiple PON

technologies, including:
* GPON (Gigabit Passive Optical Network):Suitable for residential and small businessapplications.
* XG(S)-PON (10G Symmetric/Asymmetric PON):Provides higher bandwidth for demanding applications like enterprise services and 5G backhaul.
* Combo PON:Combines GPON and XG(S)-PON on the same port, allowing for seamless upgrades from GPON to XG(S)-PON without replacing hardware.
This flexibility makes Flex-PON boards ideal for operators looking to future-proof their networks while supporting legacy GPON services.

NO.4 NCE-FAN can manage OLT series devices.
A. True
B. False
Answer: A
Explanation:
The statement isTrue. TheNCE-FANplatform is specifically designed to manageOLT (Optical Line Terminal)series devices, providing centralized control and monitoring for optical access networks.
Key capabilities of NCE-FAN in managing OLT devices include:
* Configuration Management:Automates the provisioning and configuration of OLTs, reducing manual errors and speeding up deployments.
* Performance Monitoring:Tracks key metrics like bandwidth utilization, latency, and error rates to ensure optimal network performance.
* Fault Management:Detects and resolves issues proactively, minimizing service disruptions.
* Service Orchestration:Coordinates the delivery of services like IPTV, VoIP, and broadband internet across multiple OLTs.
By integrating OLT management into a unified platform, NCE-FAN simplifies operations and enhances the scalability of optical access networks.

NO.5 EA5800-X2 is able to provide dual AC input interface.
A. True
B. False
Answer: A
Explanation:
TheEA5800-X2is a compact Optical Line Terminal (OLT) designed for small and medium-sized networks.
One of its key features is the support fordual AC input interfaces, which enhances power redundancy and reliability. This ensures uninterrupted operation even if one power source fails, making it suitable for critical network environments.
Dual AC input is particularly important in scenarios where high availability is required, such as enterprise campuses, hospitals, and remote areas.
References:
* Huawei EA5800-X2 Product Datasheet
* Huawei OLT Deployment Guide

NO.6 OptiXtrans products include: E9600, OSN 1800, 1X908, and E5800.
A. True
B. False

Answer: B
Explanation:
The statement isFalse. While theOptiXtrans E9600andOSN 1800are part of Huawei's optical transmission portfolio, the1X908andE5800are not included under the OptiXtrans product line.
Here's a clarification:
* OptiXtrans E9600:A series of optical transmission devices designed for backbone, metro, and access networks.
* OSN 1800:A compact optical transport platform for enterprise and carrier-grade applications.
* 1X908:This is not a recognized product in Huawei's optical transmission portfolio.
* E5800:Refers to a different product line, typically associated with access networks rather than optical transmission.
The confusion may arise from overlapping product names, but the OptiXtrans series specifically focuses on optical transmission solutions.

NO.7 Which of the following scenarios could use NCE-FAN Lite products?
A. The management capacity is more than 5000 equivalent NEs.
B. The management capacity is less than 1000 equivalent NEs.
C. The management capacity is more than 4000 equivalent NEs.
D. The management capacity is more than 3000 equivalent NEs.
Answer: B
Explanation:
The correct answer isThe management capacity is less than 1000 equivalent NEs.NCE-FAN Liteis a lightweight version of Huawei's Network Cloud Engine for Fixed Access Networks (NCE-FAN), designed for small to medium-sized deployments.
Key characteristics of NCE-FAN Lite include:
* Scalability:Suitable for managing up to1000 equivalent NEs (Network Elements), making it ideal for smaller networks like enterprise campuses or regional ISPs.
* Cost Efficiency:Offers a simplified feature set compared to the full NCE-FAN, reducing costs for organizations with limited management needs.
* Ease of Deployment:Simplifies network operations with centralized monitoring, configuration, and troubleshooting capabilities.
Options A, C, and D refer to larger-scale deployments that exceed the capacity of NCE-FAN Lite. For such scenarios, the full version of NCE-FAN or other advanced management platforms would be required.

NO.8 Huawei Metro & Access WDM market share is No.1.
A. True
B. False
Answer: A
Explanation:
The statement isTrue. Huawei holds theNo.1 market sharein theMetro & Access WDM (Wavelength Division Multiplexing)segment, according to industry reports from organizations like Dell'Oro Group and Omdia.
Here's why Huawei leads the market:
* Innovative Technology:Huawei has consistently invested in cutting-edge technologies like OTN, MS-

OTN, and advanced modulation schemes (e.g., QPSK, QAM) to deliver high-capacity, low-latency solutions.
* Comprehensive Portfolio:Huawei offers a wide range of WDM products, including the OSN series (e.g., OSN 9800, OSN 1800), OptiXtrans series, and DCI solutions, catering to diverse customer needs.
* Global Reach:Huawei's solutions are deployed worldwide, serving industries such as telecommunications, utilities, transportation, and enterprises.
* Customer-Centric Approach:Huawei provides tailored solutions for specific use cases, such as smart grids, safe cities, and data center interconnects, enhancing its market leadership.
This leadership reflects Huawei's commitment to innovation, quality, and customer satisfaction in the optical networking space.

NO.9 E2E OTN Hard Pipes Provide High-Quality Services (High Availability, Low Latency, Zero Packet Loss).
A. True
B. False
Answer: A
Explanation:
End-to-End (E2E) OTN Hard Pipesare a key feature of Huawei's optical transport solutions, ensuringhigh- quality serviceswith the following characteristics:
* High Availability:Dedicated bandwidth allocation ensures consistent performance without contention.
* Low Latency:Direct optical paths minimize delays, making it ideal for mission-critical applications like finance and healthcare.
* Zero Packet Loss:Hard pipes provide physically isolated channels, eliminating packet loss caused by congestion or interference.
These features make E2E OTN Hard Pipes suitable for industries requiring ultra-reliable connectivity, such as government, finance, and smart grids.
References:
* ITU-T G.709 Standard - OTN Specifications
* Huawei OTN Hard Pipe Solution Guide

NO.10 Which of the following functional modules does the NCE-T support?
A. Analysis module
B. Forwarding module
C. Management module
D. Control module
Answer: A C D
Explanation:
TheNCE-T (Network Cloud Engine - Transport)is a modular platform that supports multiple functional modules for managing optical transport networks. Here's an analysis of each option:
* Analysis Module:Provides AI-driven analytics for network performance monitoring, fault prediction, and optimization.
* Forwarding Module:The NCE-T does not include a forwarding module, as this function is handled by the underlying network devices (e.g., routers, switches).

* Management Module:Handles device configuration, fault monitoring, and performance management.
* Control Module:Provides centralized control over network resources, enabling features like automatic service provisioning and policy enforcement.
Thus, the correct answers areA (Analysis module), C (Management module), and D (Control module).
References:
* Huawei NCE-T Product Documentation
* Huawei Optical Transport Network Solution Guide

NO.11 Which of the following are the highlights of the NCE-FAN Home Network?
A. Intelligent O&M for Home Networks, Reducing Unnecessary Field Visits
B. High-Quality Home Network Deployment, Facilitating Fast Wi-Fi Service Rollout
C. Accurate Insight, Identifying Potential Opportunities
D. Automatic Service Deployment, Boosting Service Rollout
Answer: A B C D
Explanation:
TheNCE-FAN Home Networksolution is designed to enhance the management and performance of home networks in Fiber-to-the-Home (FTTH) deployments. Its key highlights include:
* Intelligent O&M for Home Networks:Uses AI-driven analytics to monitor and troubleshoot issues remotely, reducing the need for field visits.
* High-Quality Home Network Deployment:Ensures optimal placement of Wi-Fi access points and ONTs for seamless coverage and fast service activation.
* Accurate Insight:Provides detailed visibility into network performance and user behavior, helping service providers identify upsell opportunities.
* Automatic Service Deployment:Automates the provisioning and configuration of services, accelerating time-to-market for new offerings.
These features improve customer satisfaction while reducing operational costs for service providers.
References:
* Huawei NCE-FAN Product Documentation
* Huawei Home Network Solution Guide

NO.12 In remote areas, which of the following solutions are proposed to achieve economic network deployment?
A. Flex-PON
B. Outdoor Site Cabinet for OLT
C. Combo PON
D. Class D Optical Module
Answer: B D
Explanation:
Deploying networks inremote areaspresents unique challenges, such as limited infrastructure, harsh environmental conditions, and high costs. To address these challenges, Huawei proposes the following solutions:
* Outdoor Site Cabinet for OLT:Compact and ruggedized cabinets house the OLT and associated equipment, enabling deployment in outdoor environments without the need for dedicated indoor spaces.

* Class D Optical Module:These modules are designed for long-distance transmission (up to 20 km), making them ideal for connecting remote areas to the central OLT.
WhileFlex-PONandCombo PONare innovative technologies, they are more focused on optimizing network capacity and efficiency rather than addressing the specific challenges of remote deployments.
References:
* Huawei Remote Area Deployment Guide
* Huawei OLT Outdoor Cabinet Specifications