



Huawei H19-315 Practice Questions

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Question 1

Question Type: MultipleChoice

Which of the following is NOT an enterprise production network's requirement on optical transmission?

Options:

- A- More intelligent
- B- More complex
- C- Simpler
- D- More secure

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Answer:

B

Explanation:

The correct answer is More complex. Enterprise production networks prioritize simplicity, intelligence, and security in optical transmission, rather than unnecessary complexity.

Here's an analysis of each option:

- A . More intelligent:Enterprises increasingly demand intelligent networks that leverage AI and automation for tasks like fault detection, performance optimization, and service provisioning.
- B . More complex:Complexity is generally undesirable in enterprise networks, as it increases operational overhead, raises costs, and introduces potential points of failure. Modern solutions aim to simplify network architecture while enhancing functionality.
- C . Simpler:Simplicity is a key requirement for enterprise networks, enabling easier deployment, management, and troubleshooting. Solutions like converged platforms (e.g., MS-OTN) and automated tools (e.g., NCE-T) help achieve this goal.
- D . More secure:Security is critical for protecting sensitive data and ensuring compliance with regulations. Features like hard pipe isolation, encryption, and access control are essential for enterprise networks.

By focusing on intelligence, simplicity, and security, optical transmission solutions can better meet the evolving needs of enterprise production networks.

Question 2

Question Type: MultipleChoice

OptiXtrans E9600 series includes: OptiXtrans E9624, OptiXtrans E9612, and OptiXtrans E9605.

Options:

A- True

B- False

Answer:

A

Explanation:

The OptiXtrans E9600 series is part of Huawei's advanced optical transmission portfolio, designed for high-capacity and long-haul transport networks. The series includes the following models:

OptiXtrans E9624: High-end model with a maximum cross-connect capacity of 24 Tbps per subrack, suitable for core networks.

OptiXtrans E9612: Mid-range model with a maximum cross-connect capacity of 12 Tbps per subrack, ideal for metro and regional networks.

OptiXtrans E9605: Compact model with a smaller footprint, designed for edge and access networks.

These models cater to different network requirements, from core to edge deployments, ensuring scalability and flexibility.

Huawei OptiXtrans E9600 Series Product Documentation

Huawei Optical Transport Network Solution Guide

Question 3

Question Type: MultipleChoice

What's the minimum protection switching time of Link-layer Type B Switching?

Options:

- A- 50ms
- B- 3s
- C- 3min
- D- 1min

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Answer:

A

Explanation:

The minimum protection switching time for Link-layer Type B Switching in GPON is 50ms. Type B protection involves protecting the fiber link between the OLT and the splitter by providing redundant fibers. In the event of a fiber failure, the system switches to the backup fiber within 50ms to ensure minimal service disruption. This fast switching time is critical for maintaining high availability and reliability in GPON networks.

3s, 3min, 1min: These times are far too long for protection switching in modern optical networks, which require near-instantaneous recovery to meet SLA (Service Level Agreement) requirements.

Huawei GPON Technology White Paper

ITU-T G.984.x Standards for GPON

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Question 4

Question Type: MultipleChoice

Huawei has kept the world's No. 1 market share for more than 10 years in the field of optical transmission & access networks.

Options:

A- True

B- False

Answer:

A

Explanation:

Huawei has consistently maintained the No. 1 global market share in the field of optical transmission and access networks for over a decade. This leadership position is attributed to several factors:

Innovation Leadership: Huawei invests heavily in R&D, driving advancements in technologies like OTN, WDM, PON, and MS-OTN.

Comprehensive Portfolio: Its product portfolio spans from core backbone networks to metro, access, and data center interconnect solutions.

Global Presence: Huawei serves customers across industries and regions, including telecom operators, enterprises, and governments.

Industry Recognition: Reports from firms like Dell'Oro Group and Omdia consistently rank Huawei as the top vendor in optical networking.

This sustained dominance underscores Huawei's ability to deliver cutting-edge solutions that meet evolving customer needs.

Dell'Oro Group Optical Transport Market Report

Huawei Annual Innovation Report

Question 5

Question Type: MultipleChoice

Which of the following features can provide real-time network quality monitoring, pre-warning, and optimization of link deterioration?

Options:

- A- Service Doctor
- B- Network Doctor
- C- Optical Doctor
- D- Fiber Doctor

Answer:

B

Explanation:

The Network Doctor feature is designed to provide real-time network quality monitoring, pre-warning, and optimization of link deterioration. It uses AI-driven analytics to:

Continuously monitor network performance metrics such as latency, jitter, and packet loss.

Identify potential issues before they impact services, enabling proactive maintenance.

Optimize link performance by recommending adjustments to routing, bandwidth allocation, or other parameters.

Other options like 'Service Doctor' focus on service-level diagnostics, while 'Optical Doctor' and 'Fiber Doctor' are specific to optical and fiber-level monitoring, respectively.

Huawei NCE-FAN Product Documentation

Huawei Network Quality Monitoring Best Practices

Question 6

Question Type: MultipleChoice

OptiXtrans products include: E9600, OSN 1800, DC908, and E5800.

Options:

- A- True
- B- False

Answer:

B

Explanation:

The OptiXtrans product family primarily includes advanced optical transport platforms such as the E9600 series, which is designed for high-capacity and long-haul networks. However, the OSN 1800, DC908, and E5800 are part of different product lines:

OSN 1800: Belongs to Huawei's MS-OTN (Multi-Service Optical Transport Network) portfolio, targeting metro and regional networks.

DC908: A data center interconnect (DCI) solution optimized for short-reach, high-capacity links between data centers.

E5800: Not a recognized product in Huawei's optical transport portfolio.

Thus, the statement is incorrect because not all the listed products belong to the OptiXtrans family.

Huawei OptiXtrans Product Portfolio

Huawei Optical Transport Network Solution Guide

Question 7

Question Type: MultipleChoice

Huawei Metro & Access WDM market share is No. 1.

Options:

A- True

B- False

Answer:

A

Explanation:

Huawei has consistently ranked No. 1 in the Metro & Access WDM (Wavelength Division Multiplexing) market share globally. This leadership position is attributed to its innovative optical transport solutions, such as the OSN 9800 series and OptiXtrans E9600 series, which cater to a wide range of industries and applications.

Huawei's success in this domain is driven by:

Advanced technologies like Super-C band, flexible grid, and high-speed interfaces (e.g., 400G/800G).

Comprehensive support for multiple services, including OTN, SDH, and packet-based traffic.

Strong global presence and partnerships with service providers, enterprises, and governments.

This dominance is well-documented in industry reports from firms like Dell'Oro Group and Omdia.

Dell'Oro Group Optical Transport Market Report

Huawei Metro & Access WDM Solution Guide

Question 8

Question Type: MultipleChoice

Which option best optical modules are used in commercial case currently?

Options:

- A- Class D
- B- Class B+
- C- Class E
- D- Class C+
- E- Class F

Answer:

B, D

Explanation:

The correct answers are Class B+ and Class C+. These optical module classes are widely used in commercial GPON deployments due to their balance of performance, cost, and reliability.

Class B+: Supports transmission distances up to 20 km and is commonly used in urban and suburban areas. It provides sufficient power budget for most residential and small business applications.

Class C+: Supports longer distances (up to 40 km) and higher split ratios, making it ideal for rural or remote areas where extended reach is required.

Other options:

Class D: Not a standard classification for GPON optical modules.

Class E and F: These classifications do not exist in current GPON standards.

The choice between Class B+ and Class C+ depends on the specific deployment scenario, including distance, split ratio, and environmental conditions.

ITU-T G.984.x Standards for GPON

Huawei GPON Optical Module Specifications

Question 9

Question Type: MultipleChoice

What is the minimum number of chassis to deploy an 8x200G (2x100GE) WDM system with DC908?

Options:

- A- 4
- B- 2
- C- 1
- D- 3

Answer:

C

Explanation:

The OptiXtrans DC908 is a highly compact and efficient data center interconnect (DCI) solution. To deploy an 8x200G (2x100GE) WDM system, only 1 chassis is required.

Key reasons:

High Integration: The DC908 supports up to 800G per wavelength and integrates multiple functions into a single 2U chassis.

Scalability: A single chassis can handle the specified capacity (8x200G or 2x100GE) without requiring additional hardware.

Plug-and-Play Design: Simplifies deployment and reduces the need for multiple chassis.

Using more than one chassis would be unnecessary for this configuration, making 1 chassis the correct answer.

Huawei OptiXtrans DC908 Deployment Guide

Huawei DCI Solution Best Practices

Question 10

Question Type: MultipleChoice

Which of the following 3rd party products are mapping with OptiXtrans DC908?

Options:

- A- Ciena WaveServer Ai
- B- Ciena 5430
- C- Cisco NCS 5000
- D- Infinera Groove G30
- E- Cisco NCS 1004

Answer:

A, D, E

Explanation:

The correct answers are Ciena WaveServer Ai, Infinera Groove G30, and Cisco NCS 1004. These third-party products are direct competitors or complementary solutions to the Huawei OptiXtrans DC908, offering similar capabilities for high-capacity optical transport.

Here's an overview of each product:

Ciena WaveServer Ai: A compact, high-capacity optical platform designed for data center interconnects (DCI) and metro networks. It supports 400G wavelengths and is comparable to the DC908 in terms of density and performance.

Infinera Groove G30: A modular optical transport platform optimized for high-speed DCI and

backbone networks. It supports 400G wavelengths and offers flexible service aggregation, similar to the DC908.

Cisco NCS 1004: A compact optical transport device designed for high-capacity DCI and backbone networks. It supports 400G wavelengths and integrates seamlessly with Cisco's network management tools, much like the DC908 with Huawei's NCE.

Other options:

Ciena 5430: While Ciena offers robust optical transport solutions, the 5430 is not directly comparable to the DC908, as it focuses on packet-optical convergence rather than pure optical transport.

Cisco NCS 5000: This series is more focused on router-based solutions rather than optical transport platforms like the DC908.

These products highlight the competitive landscape in the optical networking market, where vendors strive to deliver high-performance, scalable solutions for modern networks.

Huawei OptiXtrans DC908 Product Documentation

Ciena WaveServer Ai and Groove G30 Product Specifications

Cisco NCS Series Product Documentation

Question 11

Question Type: MultipleChoice

In which of the following slots can the control board be functioning for EA5800-X15?

Options:

- A- 9
- B- 7
- C- 8
- D- 10

Answer:

C

Explanation:

The correct answer is Slot 8. In the Huawei EA5800-X15 OLT, the control board is designed to be installed in Slot 8. The control board serves as the central processing unit of the OLT, managing system operations, traffic forwarding, and communication with other components.

Here's why Slot 8 is designated for the control board:

Centralized Location: Slot 8 is strategically positioned to ensure balanced power distribution and efficient heat dissipation, which are critical for maintaining system stability.

Redundancy Support: The EA5800-X15 supports dual control boards for high availability, with the second control board typically installed in Slot 7. This redundancy ensures uninterrupted operation in case of a failure.

Compatibility: Only specific slots are compatible with control boards due to their unique hardware and connectivity requirements.

Slots 9 and 10 are typically reserved for service boards or uplink modules, while Slot 7 may house a secondary control board.

Huawei EA5800 OLT Hardware Guide

Huawei GPON Technology White Paper

Question 12

Question Type: MultipleChoice

Which of the following are the main sale scenarios of the Campus OptiX (POL)?

Options:

- A- Room-like scenarios, including education, hotel, medical, apartment
- B- Video backhaul scenarios, including Safe City, park monitoring
- C- Wi-Fi backhaul scenarios, including wireless campus, wireless office, wireless hotel
- D- All office scenarios, including wired and wireless access

Answer:

A

Explanation:

The correct answer is Room-like scenarios, including education, hotel, medical, apartment.

Campus OptiX (POL) is primarily designed for enterprise campus environments where high bandwidth, low latency, and simplified network architecture are required. Common scenarios include:

Education: Connecting classrooms, dormitories, and administrative offices.

Hotels: Providing high-speed internet and IPTV services to guests.

Medical: Supporting hospital networks for patient care, imaging, and telemedicine.

Apartments: Delivering triple-play services (data, voice, video) to residents.

While options like video backhaul and Wi-Fi backhaul are valid use cases for optical networks, they are typically associated with carrier-grade solutions rather than enterprise-focused Campus OptiX deployments.

Huawei Campus OptiX (POL) Solution White Paper

IEEE 802.3ah Standards for PON



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