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Question 1

Question Type: MultipleChoice

What is the downstream bitrate of the GPON standard?

Options:

- A- 1 Gbps
- B- 10 Gbps
- C- 2.5 Gbps
- D- 2 Gbps

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Answer:

C

Explanation:

The GPON (Gigabit Passive Optical Network) standard, defined by the ITU-T G.984 specification, supports asymmetric data rates for upstream and downstream traffic. Specifically:

Downstream Bitrate: 2.5 Gbps

Upstream Bitrate: 1.25 Gbps

The higher downstream bitrate reflects the typical usage pattern of internet services, where users consume more data (e.g., streaming videos) than they upload. GPON uses Time Division Multiplexing (TDM) to manage data transmission between the OLT and multiple ONUs.

For higher bandwidth requirements, advanced standards like XG-PON (10 Gbps downstream) or NG-PON2 (multi-wavelength support) are available.

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ITU-T G.984 Standard - GPON Architecture

Huawei GPON Technical Documentation

Question 2

Question Type: MultipleChoice

OptiXtrans DC908 is able to be managed by WebGUI.

Options:

A- True

B- False

Answer:

A

Explanation:

The statement is True. The OptiXtrans DC908 can be managed using a WebGUI (Web Graphical User Interface), providing a user-friendly way to configure, monitor, and troubleshoot the device.

Key features of the WebGUI include:

Ease of Use: The WebGUI offers an intuitive interface for operators, reducing the learning curve compared to command-line tools.

Centralized Management: Provides access to key functions like performance monitoring, fault detection, and service provisioning.

Remote Access: Enables administrators to manage the DC908 from any location with internet connectivity, improving operational efficiency.

Integration with NCE: While the WebGUI is available for standalone management, the DC908 also integrates seamlessly with Huawei's NCE (Network Cloud Engine) for advanced automation and orchestration.

This flexibility in management options makes the DC908 suitable for both small-scale deployments and large-scale carrier networks.

[Huawei OptiXtrans DC908 Product Documentation](#)

[Huawei NCE Product Documentation](#)

Question 3

Question Type: MultipleChoice

Which of the following statements about OSN 1800 V is incorrect?

Options:

- A- 700G OTN
- B- Support for rich interfaces
- C- Unavailable in a 19-inch cabinet
- D- Support for AC/DC with 1+1 backup

Answer:

C

Explanation:

The OSN 1800 V is a compact and versatile optical transport platform designed for metro and access networks. Let's analyze each statement:

Statement A: The OSN 1800 V supports 700G OTN capacity, making it suitable for high-bandwidth applications.

Statement B: It provides rich interfaces, including Ethernet, SDH, and OTN, ensuring flexibility for diverse use cases.

Statement C: The OSN 1800 V is available in a 19-inch cabinet, making it easy to deploy in data centers or telecom rooms. This statement is incorrect.

Statement D: It supports both AC and DC power inputs with 1+1 redundancy, ensuring high reliability.

Thus, the incorrect statement is C.

Huawei OSN 1800 V Product Datasheet

Huawei Metro & Access WDM Solution Guide

Question 4

Question Type: MultipleChoice

Which of the following are the highlights of the NCE-T?

Options:

- A- Visualized Bandwidth Resources

- B- Optical VPN (OVPN)
- C- Optical Latency Map
- D- Optical Service Provisioning
- E- CPE Plug and Play

Answer:

A, B, C, D, E

Explanation:

The NCE-T (Network Cloud Engine - Transport) is a comprehensive platform for managing optical transport networks. Its key highlights include:

Visualized Bandwidth Resources: Provides real-time visibility into network bandwidth usage, enabling efficient resource allocation.

Optical VPN (OVPN): Supports virtual private networks over optical transport networks, ensuring secure and isolated connectivity for different tenants.

Optical Latency Map: Displays end-to-end latency across the network, helping optimize performance for latency-sensitive applications.

Optical Service Provisioning: Automates the provisioning of optical services, reducing manual intervention and speeding up deployment.

CPE Plug and Play: Simplifies the deployment of customer premises equipment (CPE) by enabling zero-touch provisioning.

These features make the NCE-T a powerful tool for managing modern optical networks.

Huawei NCE-T Product Documentation

Huawei Optical Transport Network Solution Guide

Question 5

Question Type: MultipleChoice

Which of the following devices does NOT support AC power supply?

Options:

- A- OSN 9800
- B- OSN 1800 II
- C- OSN 1800 I
- D- OSN 1800 V

Answer:

C

Explanation:

The correct answer is OSN 1800 I. The OSN 1800 I does not support AC power supply; it is designed to operate exclusively on DC power.

Here's an overview of the options:

OSN 9800: Supports both AC and DC power supplies, making it suitable for diverse deployment scenarios.

OSN 1800 II: Supports both AC and DC power supplies, providing flexibility for different environments.

OSN 1800 I: Designed for compact, cost-effective deployments, it supports only DC power, which may limit its use in certain scenarios.

OSN 1800 V: Supports both AC and DC power supplies, catering to high-capacity metro and access networks.

The lack of AC power support in the OSN 1800 I makes it less versatile compared to other models in the series.

Huawei OSN 1800 Series Product Documentation

Huawei Power Supply Specifications

Question 6

Question Type: MultipleChoice

The MS-OTN can't support OTN, SDH, and PKT.

Options:

- A- True
- B- False

Answer:

B

Explanation:

The MS-OTN (Multi-Service Optical Transport Network) is specifically designed to support multiple types of services and protocols, including:

OTN (Optical Transport Network): Provides high-capacity transport for long-haul and metro networks.

SDH (Synchronous Digital Hierarchy): Supports legacy TDM-based services.

PKT (Packet): Enables packet-based services such as Ethernet and IP/MPLS.

MS-OTN integrates these technologies into a single platform, allowing service providers to converge multiple services onto a unified infrastructure. This flexibility makes MS-OTN ideal for modernizing existing networks while supporting future growth.

The statement that MS-OTN 'can't support OTN, SDH, and PKT' is therefore incorrect.

ITU-T G.709 Standard - OTN Specifications

Huawei MS-OTN Solution Guide

Question 7

Question Type: MultipleChoice

When quoting, which offering includes the hardware of eSight?

Options:

- A- Network Cloud Engine-FAN
- B- eSight Outsourcing
- C- eSight
- D- NCE_FusionCompute

Answer:

C

Explanation:

The eSight offering includes both the software and hardware components required for network management. Specifically, when quoting eSight, the package typically includes:

The eSight software, which provides comprehensive network management capabilities.

The hardware server (e.g., Huawei FusionServer or TaiShan Server) on which the software is deployed.

Options like 'Network Cloud Engine-FAN' and 'NCE_FusionCompute' are unrelated to eSight, while 'eSight Outsourcing' refers to managed services rather than a hardware-inclusive package.

Huawei eSight Product Documentation

Huawei Network Management Solution Guide

Question 8

Question Type: MultipleChoice

What is the maximum single-fiber capacity of OSN9800?

Options:

A- 24T

B- 19.2T

C- 48T

D- 16T

Answer:

C

Explanation:

The correct answer is 48T. The Huawei OSN 9800 series supports a maximum single-fiber capacity of 48 Tbps, making it one of the most advanced optical transport platforms available.

Key factors contributing to this high capacity include:

WDM (Wavelength Division Multiplexing): Combines multiple wavelengths on a single fiber, each carrying data at speeds up to 400G or higher.

OTN (Optical Transport Network): Provides efficient framing and multiplexing, enabling high-density traffic aggregation.

Advanced Modulation Techniques: Uses techniques like QPSK (Quadrature Phase Shift Keying) and QAM (Quadrature Amplitude Modulation) to maximize spectral efficiency.

This level of capacity is critical for backbone and core networks, where large volumes of data need to be transmitted over long distances without bottlenecks.

Huawei OSN 9800 Product Documentation

ITU-T G.709 Standards for OTN

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