

642-311 Optical

Cisco Cisco Optical SONET Exam (SONET)

Practice Exam: 642-311 Exams

Exam Number/Code: 642-311

Exam Name: Cisco Optical SONET Exam (SONET)

Questions and Answers: 59 Q&As

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1. What protocol enables Ethernet over SONET/SDH encapsulation interoperability between the G-series and ML-series Ethernet cards?

- A. LEX
- B. HDLC
- C. GFP-F
- D. PPP/BCP

Answer: A

2. A customer has 2 DS1s to add between adjacent nodes in a UPSR ring. What type of circuit should you recommend?

- A. VT circuits
- B. STS circuits
- C. VT tunnel circuits
- D. 1:1 protection circuits
- E. 1:N protection circuits

Answer: A

3. You are installing a Cisco ONS 15454 in a service provider site. A DS3 cable is to be connected to a digital cross-connect system. What is the maximum distance allowed between the two?

- A. 225 ft
- B. 450 ft
- C. 655 ft
- D. 900 ft

Answer: B

4. Which three timing modes are supported on the ONS 15454 shelf? (Choose three.)

- A. line timing
- B. loop timing
- C. internal timing
- D. through timing
- E. external timing

Answer: ACE

5. Click the Exhibit button. Given the information shown in the exhibit, when creating 2 DS1 circuits, how many STS ports are used on the VT1.5 matrix at Node 1 as VT circuits and how many are used after using VT tunnels?

- A. 2; 0
- B. 3; 2
- C. 3, 5
- D. 4; 0
- E. 6; 0
- F. 6; 2

Answer: C

6. A customer wants to create a 1:1 protection group with a DS3N-12 card. Which card slots would allow for a 1:1 protection?

- A. Slot 2 and Slot 4
- B. Slot 4 and Slot 6
- C. Slots 5 or 13 only
- D. Slot 16 and Slot 17

Answer: D

7. With R4.0, how many total DCC tunnel connections can each ONS 15454 support using the TCC+ card?

- A. 10
- B. 32
- C. 64
- D. 84
- E. 96

Answer: B

8. You are provisioning a DS-1 circuit on an ONS 15454 UPSR configuration and XC-10G card. How many total VT ports are used within the VT matrix at the source node?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Answer: D

9. Click the Exhibit button. A customer has several interconnected core rings (see exhibit). They want to create several virtual rings utilizing their OC-192 backbone (nodes 1,2,3,4). What should you recommend?

- A. PPMN with BLSR rings
- B. PPMN with UPSR rings
- C. 1:N protection on all core circuits
- D. multi-ring interconnect with BLSR rings

Answer: B

10. Click the Exhibit button. In the DCN connection shown in the exhibit, all non-GNE nodes are located on different subnets from the GNE. There are no static routes or external OSPF on any elements. CTC Workstation and GNE have Cisco Router as their default gateway. Can the CTC workstation see the entire SONET network?

- A. Yes, but only if OSPF is enabled around the ring.
- B. Yes, because the GNE will only serve as a proxy-ARP for elements on the same subnet.
- C. Yes, but only if the router's address is entered as a static route in the non-GNE elements.
- D. Yes, because the GNE will serve as a proxy-ARP for all elements, regardless of their subnets.

Answer: A

11. Click the Exhibit button. Within an ONS 15454, you are provisioning a circuit on an unprotected UPSR ring. In the exhibit, which two must you configure? (Choose two.)

- A. revertive
- B. circuit type
- C. circuit size
- D. bidirectional
- E. protected drops
- F. switch on PDI-P

Answer: BC

12. What is the correct relative switching priority in a BLSR ring (higher to lower)?

- A. signal fail, signal degrade, manual switch
- B. signal degrade, signal fail, manual switch
- C. protection lockout, manual switch, path AIS
- D. forced switch, manual switch, signal degrade
- E. protection lockout, manual switch, forced switch

Answer: A

13. What are two characteristics of dual-ring interconnect in SONET networks? (Choose two.)

- A. It protects signals against node failures between rings.
- B. It protects signals against node failure within a single ring.
- C. It allows for traffic to be preempted when a ring switch occurs.
- D. Traffic can be dropped and continued at interconnecting nodes.
- E. It protects preemptible traffic from being dropped when a ring switch occurs.

Answer: AD

14. Click the Exhibit button. Which type of protection is shown in the exhibit?

- A. 1+0
- B. 1+1
- C. 1:1
- D. 1:N

Answer: B

15. Why is an OC-3 2F-BLSR not feasible?

- A. Switch times would exceed 50 ms for an OC-3 BLSR ring.
- B. An equal amount of working and protect bandwidth is required.
- C. DCC bandwidth is not large enough to handle K1/K2 processing.
- D. There is not enough bandwidth in an OC-3 ring to justify BLSR protection.

Answer: B

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