

## 642-321 Optical

### Cisco Cisco Optical SDH Exam (SDH)

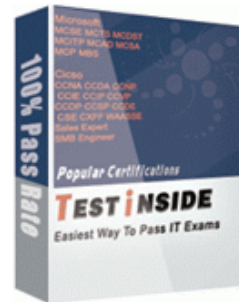
**Practice Exam:** 642-321 Exams

**Exam Number/Code:** 642-321

**Exam Name:** Cisco Optical SDH Exam (SDH)

**Questions and Answers:** 59 Q&As

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1. What is the correct relative switching priority in an MS-SPRing 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

2. You are provisioning an E-1 circuit on an ONS 15454 SNCP configuration and XC-VXL-10G card. How many total ports are used within the Low-Order matrix at the source node?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 5

Answer: E

3. What is the difference between 1+1 and 1:1 protection switching?

- A. 1+1 is based on APS, while 1:1 is based on IPS.
- B. 1:1 is used in SNCP switching, while 1+1 is used in MS-SPRing switching.
- C. 1+1 sends signals on Working and Protect paths, while 1:1 sends signals only on Working path.
- D. 1+1 sends signals on Working path ONLY, while 1:1 sends signals on both Working and Protect paths.

Answer: C

4. Why is an STM-1 2F-MS-SPRing NOT feasible?

- A. An equal amount of working and protect bandwidth is required.
- B. DCC bandwidth is not large enough to handle K1/K2 processing.
- C. Switch times would exceed 50 ms for an STM-1 MS-SPRing ring.
- D. There is not enough bandwidth in an STM-1 ring to justify MS-SPRing protection.

Answer: A

5. A customer would like to create a 1:1 protection group with a DS3Ni-12 card. Where should it be placed in the chassis?

- A. only Slots 6 or 12
- B. only Slots 3 or 15
- C. high or low speed slots
- D. directly adjacent to the working card
- E. high-speed slots only (5/6 and 12/13)

Answer: D

6. Which timing mode is most appropriate for an ONS 15454 that has lost its BITS-1 and optical references?

- A. line timing
- B. loop timing

- C. internal timing
- D. through timing
- E. external timing

Answer: C

7. A customer has 2 E1s to add between far-end nodes in an SNCP ring. What type of circuit should you recommend?

- A. LO-PATH circuits
- B. HO-PATH circuits
- C. 1:1 protection circuits
- D. 1:N protection circuits
- E. LO-TUNNEL tunnel circuits

Answer: A

8. What are two characteristics of dual-ring interconnect in SDH 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

9. You are provisioning an E-1 circuit on an ONS 15454 MS-SPRing configuration and XC-VXL-10G card. Each VC-12 connection must also terminate via the VC-3 matrix. How many VC-3 ports remain after this circuit is created, assuming no other circuits?

- A. 92
- B. 93
- C. 94
- D. 95
- E. 96

Answer: C

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 Router as its default gateway. Can the CTC workstation see the entire SDH network?

- A. Yes, but only if the CTC's network address is a static route in the GNE.
- 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. 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

12. A customer has 20 E1s to add between far-end nodes in an SNCP ring. What type of circuit would you recommend?

- A. LO-PATH circuits
- B. HO-PATH circuits

- C. 1:1 protection circuits
- D. 1:N protection circuits
- E. LO-PATH tunnel circuits

Answer: E

13. You are installing a Cisco ONS 15454 SDH in a service provider site. An E3 cable is being 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

14. Click the Exhibit button. As shown in the exhibit, a customer has several interconnected core rings. They want to create several virtual rings utilizing their STM-64 backbone (nodes 1, 2, 3, and 4). What do you recommend?

- A. SNCP rings
- B. MS-SPRing rings
- C. 1:N protection on all core circuits
- D. dual-ring interconnect with MS-SPRing rings

Answer: A

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

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

Answer: B

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