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**642-321**

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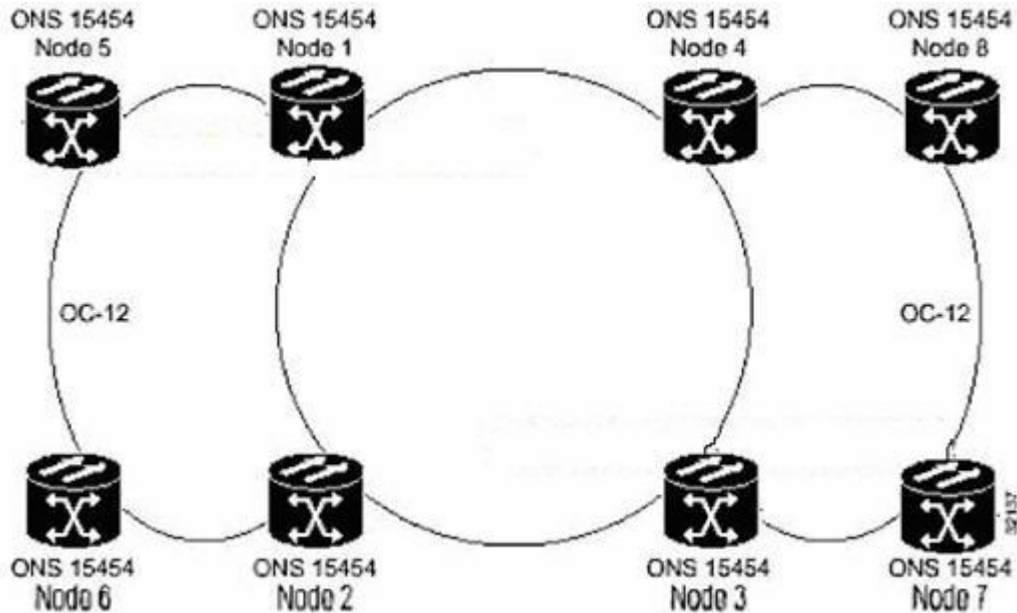
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**QUESTION:** 1 Network Topology Exhibit



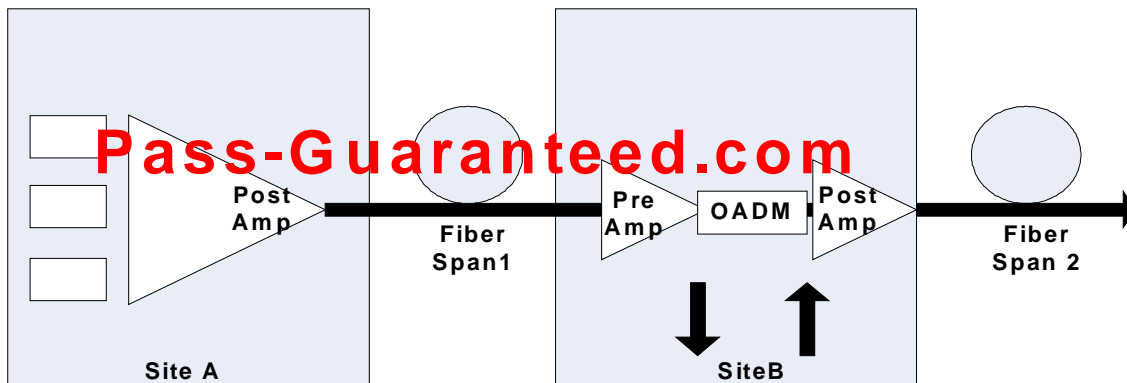
As shown in the exhibit, a customer has several interconnected core rings. They want to create several virtual rings utilizing their STM-64 backbone (Nodes 1, 2, 3, and 4).

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

**QUESTION:** 2

**Exhibit:**



When designing a CDWM system with multiple amplified spans, a pre-amp is needed Site B to \_\_\_\_\_. Choose three.

- A. Offset the OADM loss at site B.
- B. Overcome the high multiplexer loss at Site A.
- C. Amplify signal levels after the high loss through Fiber Span 1.
- D. Adjust add channels at Site B to be at the same level as the passthrough channels.
- E. Ensure that the per channel power is higher than the minimum needed for the post amp at Site B.

**Answer: A, B, C**

**QUESTION:** 3 Drag & Drop

Your boss at Pass.com asks you to match compatible concepts in SONET and SDH terminology.

Regenerator Section	Place here
Multiplex Section	Place here
Administrative Unit or administrative unit group	Place here
Transmission Unit Group	Place here
Transmission Group	Place here

**Select from these**

Line	Section	Synchronous Payload Envelope
Virtual Tributary	Virtual Tributary Group	

**Answer:**

Your boss at Pass.com asks you to match compatible concepts in SONET and SDH terminology.

Regenerator Section	Section
Multiplex Section	Line
Administrative Unit or administrative unit group	Synchronous Payload Envelope
Transmission Unit Group	Virtual Tributary Group
Transmission Group	Virtual Tributary

**QUESTION: 4**

What three in combination are factors that can cause four-wave mixing in the fiber-optic cables? Choose three

- A. Low optical power
- B. High optical power
- C. Few optical channels
- D. Many optical channels
- E. Low chromatic dispersion
- F. High chromatic dispersion
- G. Too much power differential in the optical channels

**Answer: B, D, G**

**QUESTION: 5**

The ONS 15216 is a 32-channel system. The ONS 15216 OADMs are capable of adding and dropping one, two, or four channels.

How are the OADMs provisioned to add and drop specific channels?

- A. The ONS 15216 OADM can be provisioned to add/drop one, two or four channels via Cisco Transport Manager (CTM).
- B. The ONS 15216 OADM consists only of four-channel module, and the number of ports utilized determines whether it is a one, two or four channel OADM.
- C. Three separate OADM modules are available for one, two, and four channels. The wavelengths to be dropped and added are programmable via Cisco Transport Manager (CTM).
- D. The ONS 15216 OADM consists only of four-channel module. Two-channel and four-channel support is available by stacking the single-channel module.
- E. The ONS 15216 OADM is available in one, two, four channels. There are 32 single-channel OADM modules, 16 two-channel OADM modules, and four-channel OADM modules.

**Answer: E**

**QUESTION: 6**

How is SNCP and MS-SPRing traffic rerouted during a protection switch when a complete fiber cable cut occurs?

- A. SNCP traffic is switched from the first node that receives the AIS. MS-SPRing traffic is rerouted from the first in the ring.
- B. SNCP traffic is selected at the destination node in the ring. MS-SPRing rerouted from the originating node in the ring.
- C. SNCP traffic is rerouted from the originating node in the ring. MS-SPRing traffic is rerouted from the originating node in the ring.
- D. SNCP traffic is selected at the destination node in the ring. MS-SPRing traffic is rerouted from the last reachable node in the ring

**Answer: D**

**QUESTION: 7**

How is a thin filter fabricated?

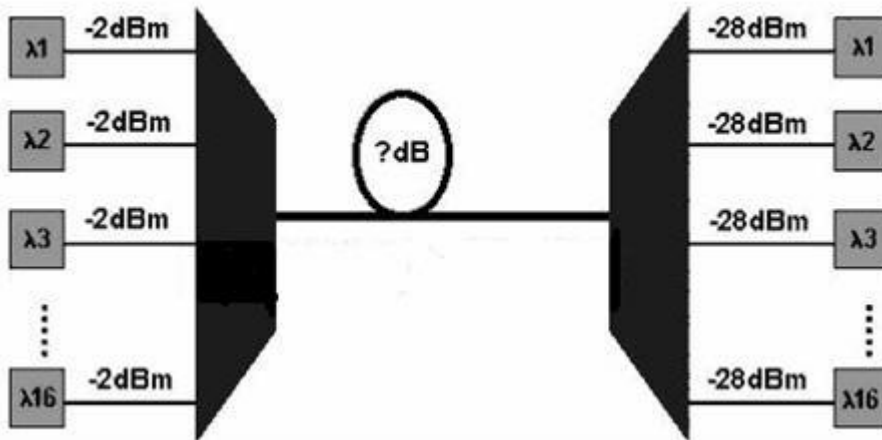
- A. The glass core is doped with an Erbium in periodic segments of the fiber.
- B. Layers of high index and low index material are deposited on a glass substrate.
- C. Thin layers of silica glass are placed onto wafers to produce a prism-like effect.

D. Fiber is etched with an ultraviolet laser that is precisely spaced for specific wavelength filtering.

**Answer: B**

**QUESTION: 8**

**Exhibit:**



What is the maximum allowable loss budget between the ONS 15216 Mux (left side) composite output and the ONS Demux (right side) composite input, with the optical values given in the exhibit? (Assume the worst case loss of 4.5 dB for 15216 200 GHz Mux/Demux and ignore power penalties or extra margin.)

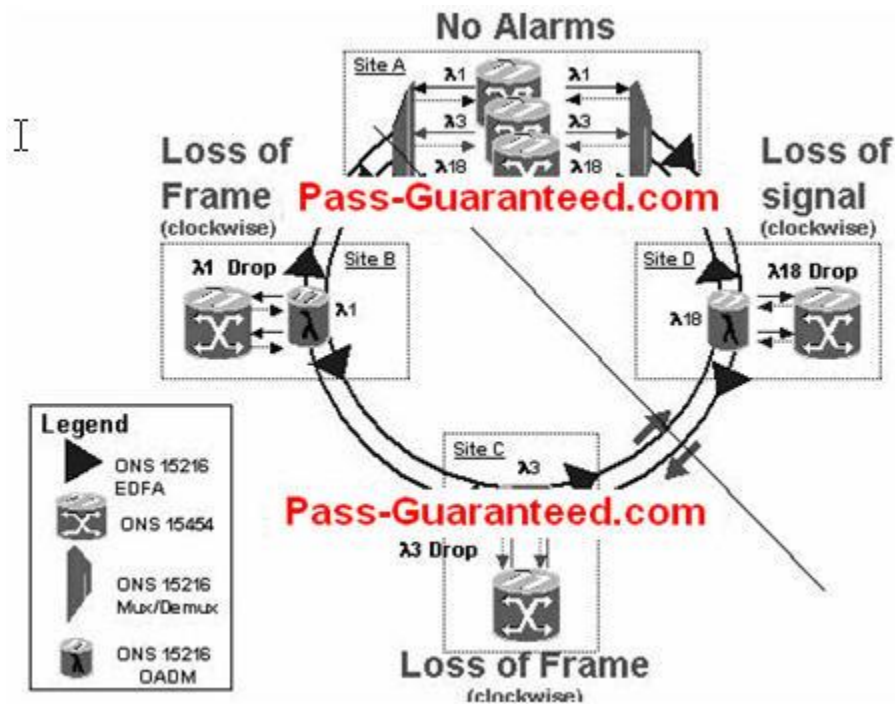
- A. 15 dB
- B. 17 dB
- C. 21 dB
- D. 26 dB
- E. 27 dB

**Answer: B**

**QUESTION: 9**

**Exhibit:**





The exhibit shows a 15454/15216 DWDM system and alarm indications.  
What are two possible sources of trouble shown in the system? (Choose two.)

- A. Fiber failure between Sites A and D.
- B. EDFA failure at Site A (clockwise direction)
- C. EDFA failure at Site C (clockwise direction)
- D. 15217 multiplexer at Site A (counter-clockwise direction)
- E. OADM pass-through (West “OUT”) failure at Site (Clockwise)
- F. Wavelengths 1 and 3 transmitter failures at Site A (clockwise direction)

**Answer: B, F**

**QUESTION: 10**

How is SNCP and MS-SPRing traffic rerouted during a protection switch when a complete fiber cable cut occurs?

- A. SNCP traffic is switched from the first node that receives the AIS. MS-SPRing traffic is rerouted from the first in the ring.
- B. SNCP traffic is selected at the destination node in the ring. MS-SPRing rerouted from the originating node in the ring.



C. SNCP traffic is rerouted from the originating node in the ring. MS-SPRing traffic is rerouted from the originating node in the ring.

D. SNCP traffic is selected at the destination node in the ring. MS-SPRing traffic is rerouted from the last reachable node in the ring

**Answer: D**