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650-325

SP Video Phase II Cable Access Networks

DEMO

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QUESTION NO: 1

Using current Cisco products, how are redundant optical links terminated at the node?

- A. It is not possible to have redundant links to the node
- B. Install two nodes in random
- C. Put an optical switch in each node
- D. Install dual optical receivers in each node

Answer: D

Explanation:

QUESTION NO: 2

What is the approximate attenuation of single-mode optical fiber at a wavelength of 1310nm?

- A. 0.35 db per km
- B. 2.00 db per km
- C. 0.25 db per km
- D. 3.00 db per km

Answer: A

Explanation:

QUESTION NO: 3

In an HFC network, where does 75-95% of 75-95 ingress originate?

- A. In the RF Feeder System
- B. In the RF Distribution system
- C. In the optical links
- D. In the Subscribers homes

Answer: B

Explanation:

QUESTION NO: 4

What is the most practical way to improve the Carrier-to-Noise ratio (CNR) of a DOCSIS Modem

upstream transmission?

- A. Use a more robust modulation scheme
- B. Ensure the modems transmit at a high RF signal level
- C. Eliminate the noise originating in the subscriber's home
- D. Use double-shielded drop cable

Answer: C

Explanation:

QUESTION NO: 5

In general, which technique is less expensive when automatic protection switching to improve reliability in an optical link between a head end and hub?

- A. Wavelength switching under ROSA control
- B. RF switching
- C. Optical switching
- D. Patch panel

Answer: C

Explanation:

QUESTION NO: 6

When a high-power optical signal passes through a fiber, the phonons can cause a 'ringing' of the crystal lattices within the glass fiber core which give rise to acoustic phonons, which in turn interact with the photons of light. The result is an increase in noise in the Received RF signal. What is the term for this phenomenon?

- A. Chirp
- B. Double Rayleigh Backscattering
- C. Raman pumping
- D. Stimulated Brillouin Scattering (SBS)

Answer: D

Explanation:

QUESTION NO: 7

At a Hub site, what is the primary reason for converting the downstream optical signals to electrical (RF) form, and then back to optical?

- A. It is less expensive than optical amplification
- B. It permits the addition of Narrowcast traffic, generated in the Hub
- C. It is an industry-accepted procedure
- D. It allows the signal quality to be improved by regeneration

Answer: B

Explanation:

QUESTION NO: 8

Assuming that the Hub contains optical transmitters, what is most common optical technology in the Hub-Node (downstream) links?

- A. 1550nm
- B. BDR
- C. 1490 nm
- D. 1310 nm

Answer: D

Explanation:

QUESTION NO: 9

What is the approximate attenuate of single-mode optical fiber at a wavelength of 1550 nm?

- A. 0.35 dB per km
- B. 2.00 dB per km
- C. 3.00 dB per km
- D. 0.25 dB per km

Answer: D

Explanation:

QUESTION NO: 10

How can you increase the bandwidth that is effectively available in the upstream signal path to