Q&A

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Nokia Advanced Optical Network Design

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Question: 1

Which of the following best describes Four Wave Mixing (FWM)?

A. FWM is a linear impairment that produces crosstalk four adjacent wavelengths are used.
B. FWM is a non-linear impairment that produces crosstalk at the sum and difference of two wavelengths.
C. FWM is a non-linear impairment resulting from varying velocities at different frequencies.
D. FWM is a linear impairment resulting from pulses broadening over ultra-longdistances

Answer: A

Question: 2

Which of the following statements about the recovery time for protection and restoration combined (PRC) is correct?

A. PRC can be as fact as sub-network connection protection (SNCP)
B. PRC is as fast as restoration mechanisms.
C. PRC has a recovery time that depends on the broken links.
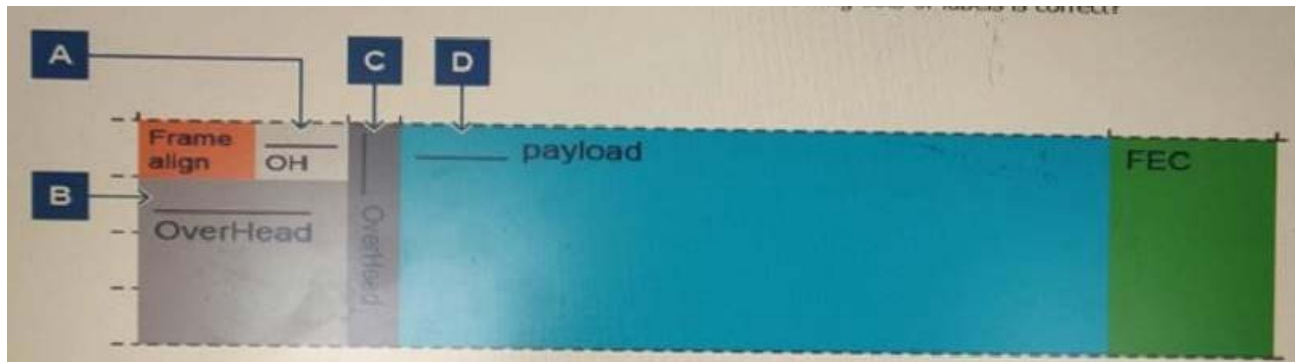D. PRC has a typical recovery time greater than 50 ms.

Answer: B

Question: 3

Which of the following best describes Flexgrid?

A. Flexgrid is based on flexible amplification stages
B. Flexgrid uses flexible guardband that can take any spacing.
C. Flexgrid is defined on a frequency grid spacing based on ,multiples of 12.5 GHz.
D. Flexgrid allows channel bandwidth central frequencies and guardband to take any value in the spectrum range.

Answer: A

Question: 4

Consider the exhibit that shows the OTN frame structure.

Which of the following sets of label is correct?

A. OUT: B: ODU: C: OPU: D: OPU

B. OUT: B: ODU: C: OPU: D: OCH
C. OPU: B: OTU: C: ODU: D: OPU
D. ODU: B: OYU: C: OPU: D: OPU

Answer: C

Question: 5

What is precision Time Protocol (PTP) designed for?

A. Precise time measurements
B. Synchronization of encryption entities
C. Shortest path discovery
D. Packet-based timing distribution

Answer: B

Question: 6

Suppose there is a 40 Gbit/s signal which has a symbol rate of Gbaud/s.

Which modulation format is being used?

A. QPSK
B. BPSK
C. 4QAM
D. DP-QPSK

Answer: C

Question: 7

Which of the following can be detected through power monitoring with an Optical Time Domain Reflect meter?

A. Intrusions on fibers
B. Power injection one channel
C. Hacking of L1 encryption
D. Intrusions in the cryptographic keys

Answer: B

Question: 8

Which of the following is recommended to reduce the latency of a 30km long link?

A. DCM-free amplifiers
B. Soft-decision FEC
C. Low-noise amplifiers
D. L1 encryption

Answer: C

Question: 9

Which of the following statements about GMPLS features is FALSE?

A. GMPLS is able to manage the optical network through the DC
B. GMPLS is able to control OTN networks.
C. GMPLS is able to compute the routing of the optical channels.
D. GMPLS is able to automatically provision the optical channels.

Answer: B

Question: 10

Which if the following statements about Recovery Time Objective (RTO) and Recovery Point Object Point Objective (PRO) is FALSE?

A. RTO/PRO define business continually requirements for data center.
B. RTO/PRO defined the acceptable amount of data (in bits) that can be lost after a failure.
C. Data center mirroring has the most critical level of RT
D. RPO among DC applications.
E. Tier Âœ data centers have stricter RTO/PRO requirements than Tire ÂŸ.

Answer: B

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