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**Nokia**

# 4A0-255

*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 fast 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

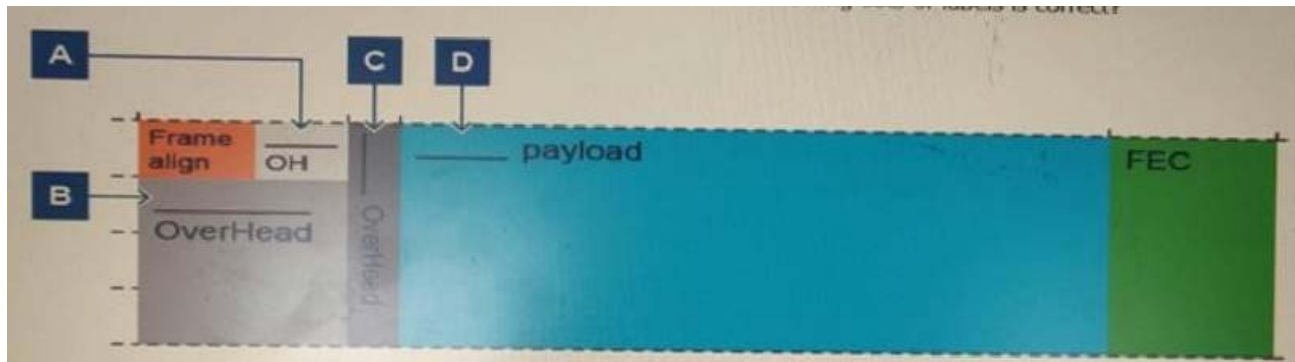
Which of the following best describes Flexgrid?

- 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 1 data centers have stricter RTO/PRO requirements than Tire 2.

**Answer: B**



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