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**Exam : 4A0-255**

**Title : Nokia Advanced Optical  
Network Design**

**Version : DEMO**

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**

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.

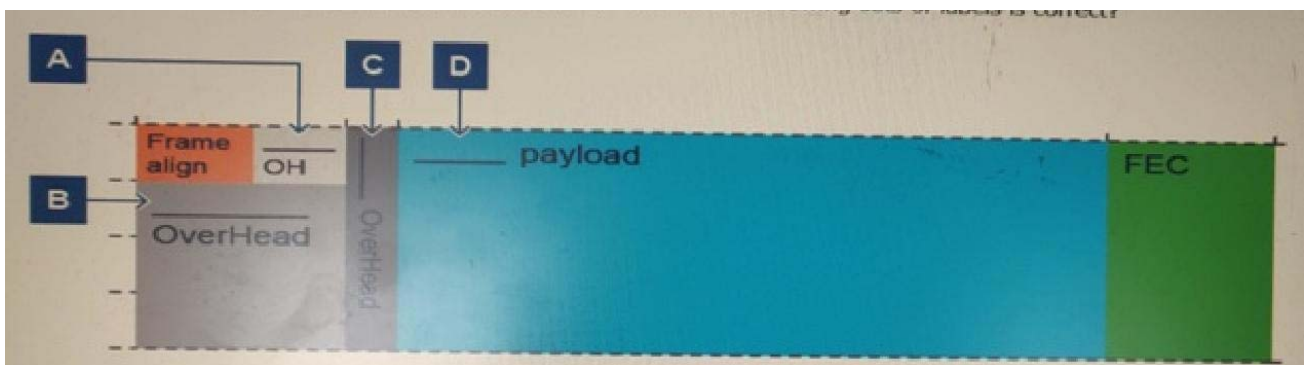
**Answer: B**

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**

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**

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**