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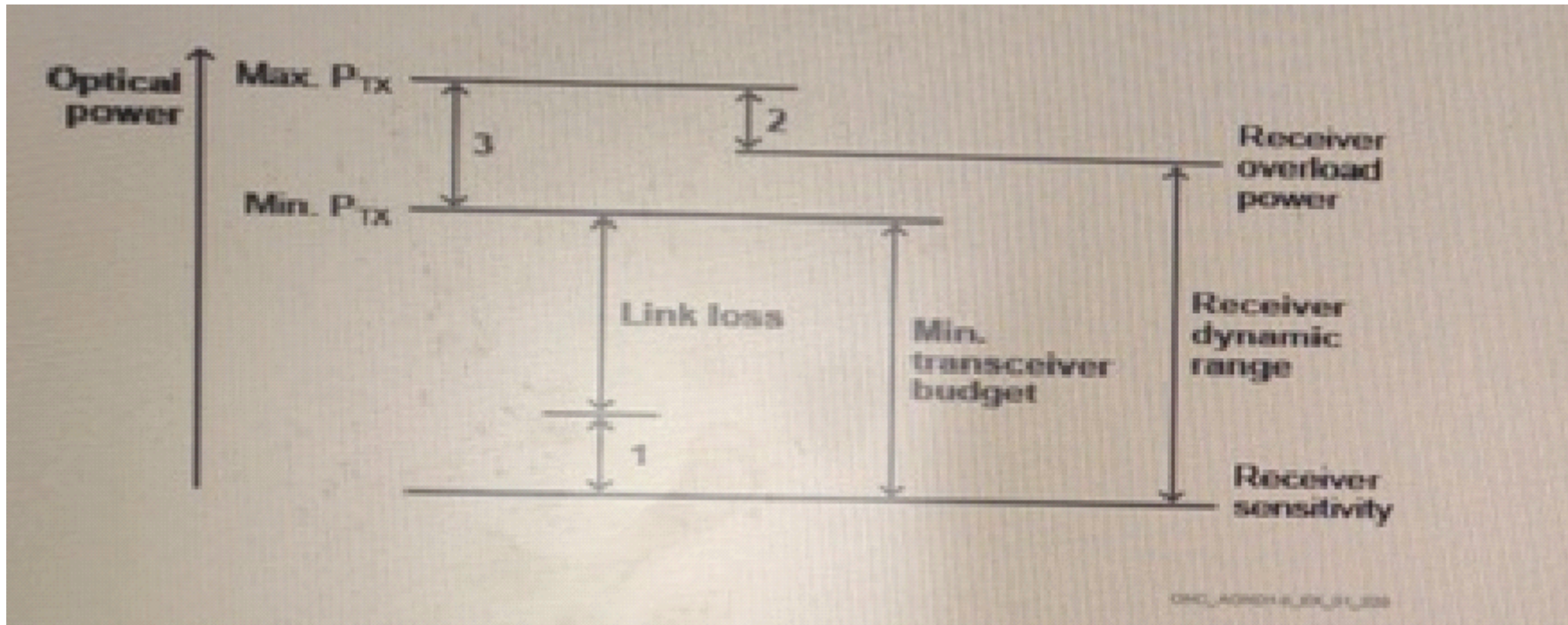
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# Question 1

Question Type: MultipleChoice

Consider the exhibit that shows a link power budget diagram. Which of the following is represented at location 2?



Options:

- A- Power range
- B- OSNR margin
- C- Minimum attenuation
- D- System aging margin

**Answer:**

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A

## Question 2

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**Question Type:** MultipleChoice

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Which of the following best describes self-phase modulation?

**Options:**

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- A- It is a type of modulation format exploiting the phase to carry information.
- B- It is a phase shift suffered by an optical signal caused by its power intensity.
- C- It is a type of impairment that can be compensated using DCMs

**D-** It is a type of impairment cause by spectrally adjacent channels.

**Answer:**

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D

## Question 3

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**Question Type: MultipleChoice**

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Which of the following best describes Flexgrid?

**Options:**

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- 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:**

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A

## Question 4

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**Question Type:** MultipleChoice

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Where is guardband mandatory for EMF?

**Options:**

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- A- Between 10G and 40G channels
- B- Between 10G and 100G channels
- C- Between 10G and 200G channels
- D- Between 40G and 100G channels

**Answer:**

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C

## Question 5

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**Question Type: MultipleChoice**

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Consider a signal at 100G PDM-QSK. Which of the following statements is true?

**Options:**

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- A- It supports more bits per symbol per polarization than 8QAM
- B- It has the same Gbaud rate as 100G 8QAM.
- C- Each symbol supported 2 bits per polarization.
- D- The Gbaud rate is 50.

**Answer:**

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A

## Question 6

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**Question Type: MultipleChoice**

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Which of the following is NOT a functionality provided by a coherent receiver?

**Options:**

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- A- Analog-to-digital conversion (ADC)
- B- Digital signal processing (DSP)
- C- Mixing
- D- Demultiplexing

**Answer:**

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C

## Question 7

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**Question Type: MultipleChoice**

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Which of the following is NOT an advantage of super-channels?

**Options:**

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- A- Improved spectral efficiency

- B- Simplified management of the carriers
- C- Narrower spacing between carries of the super-channel
- D- Impairment-free transmission

**Answer:**

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C

## Question 8

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**Question Type:** MultipleChoice

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What is guardband required for?

**Options:**

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- A- To reduce the impact of chromatic dispersion.
- B- To properly use the available bandwidth of the fibers.
- C- To enable each channel to support a higher modulation format.
- D- To reduce non-linear impairments between coherent and non-coherent channels.



**Answer:**

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D

## Question 9

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**Question Type:** MultipleChoice

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Suppose there is a 40 Gbit/s signal which has a symbol rate of Gbaud/s. Which modulation format is being used?

**Options:**

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A- QPSK

B- BPSK

C- 4QAM

D- DP-QPSK

**Answer:**

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C

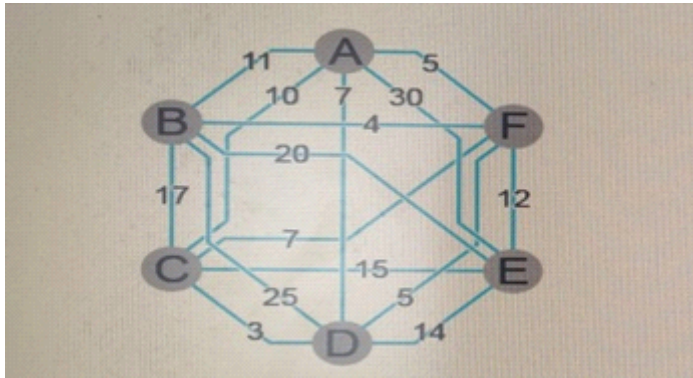
## Question 10

### Question Type: MultipleChoice

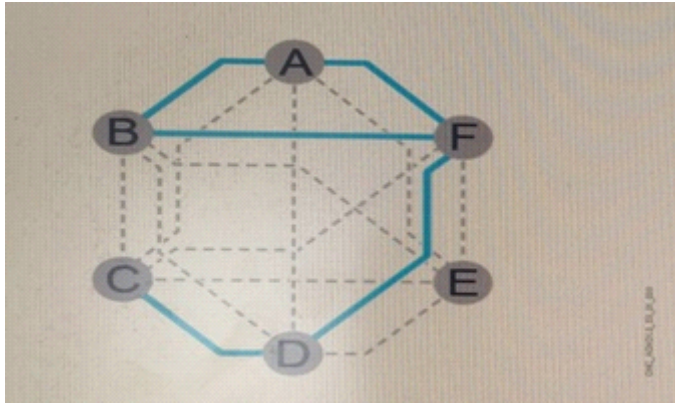
Consider the exhibit that shows a network with a full mesh fiber structure. Link weights indicate the cost. Future services can be requested between any node pair.

Which of the following topology represents a minimum cost design (minimum overall fiber cost) where link failure survivability is ensured?

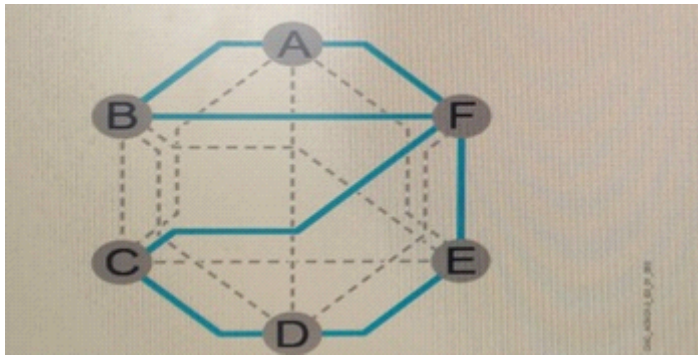
A)



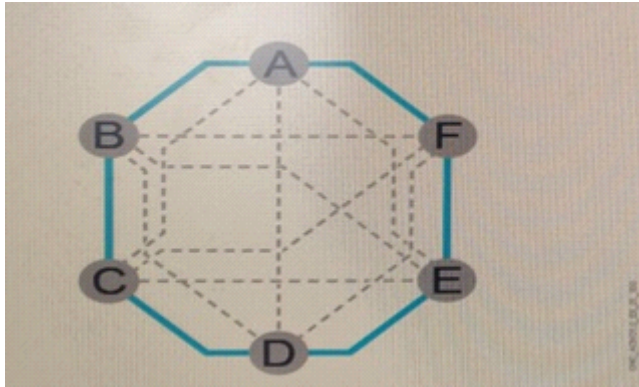
B)



C)



D)



**Options:**

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**A-** Option A

**B-** Option B

**C-** Option C

**D-** Option D

**Answer:**

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B

**Question 11**

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**Question Type: MultipleChoice**

Consider the exhibit showing the schematic for an NE in a deployed optical network. The traffic growth forecast is for the use of 40 channels in 3 years. The customer needs to reduce the space for the shelf. Among the following, which additional input is NOT necessary to meet these specific requirements?



**Options:**

A- Rack size

**B-** Expected traffic added-dropped at the site

**C-** Mean time to repair for the equipment

**D-** Power supply

**Answer:**

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D

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