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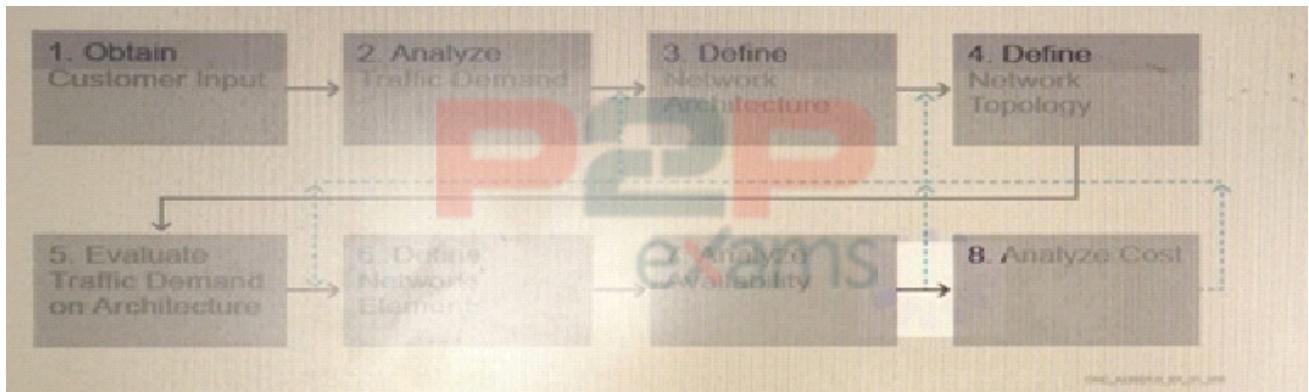
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# Question 1

Question Type: MultipleChoice

Consider the exhibit shows the standard 8-step network design process. Suppose that you have used this process to design a Green filed network, which has been commissioned and is in operation. The customer now requests an extension to the network to accommodate more steps and traffic. Which steps are not required when designing such an extension?



Options:

- A- Step 2(analyze Traffic Demand and Step 4 ( Define Network Topology)
- B- Step (Define Network Architecture ) and Step 5( Evaluate Traffic Demand on Architecture)
- C- Step2 (Analyze Available) and Step 8 (Analyze Cost).
- D- The steps to be followed depended on the requirement of the network extension.

Answer:

C

# Question 2

Question Type: MultipleChoice

What does an OPU tributary slot contain, when multiplexing OTN frames?

Options:

- A- An OUT.
- B- An ODU.
- C- An OPU.

D- An OH byte

Answer:

C

## Question 3

Question Type: MultipleChoice

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

Options:

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

Answer:

C

## Question 4

Question Type: MultipleChoice

Which option best best describes Four Wave Mixing (FWM)?

Options:

- 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-long distances

Answer:

A

## Question 5

Question Type: MultipleChoice

Which option best describes Flexgrid?

Options:

- 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

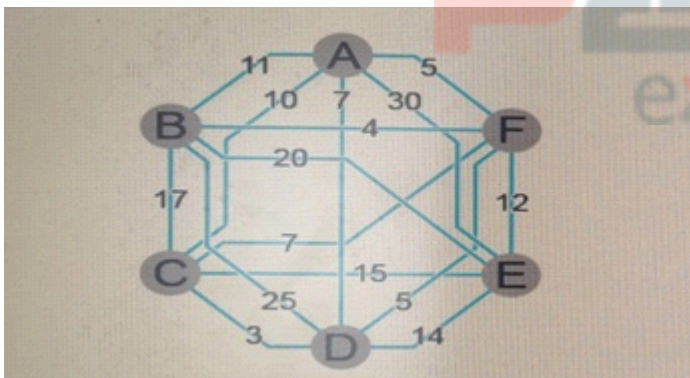
## Question 6

Question Type: MultipleChoice

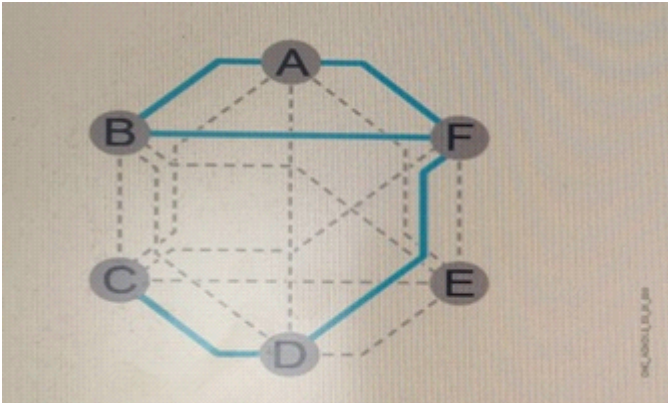
Consider the exhibit that shows a network with a full mesh fiber structure. Link weights indicate the cost. Future services can be requested between any node pair.

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

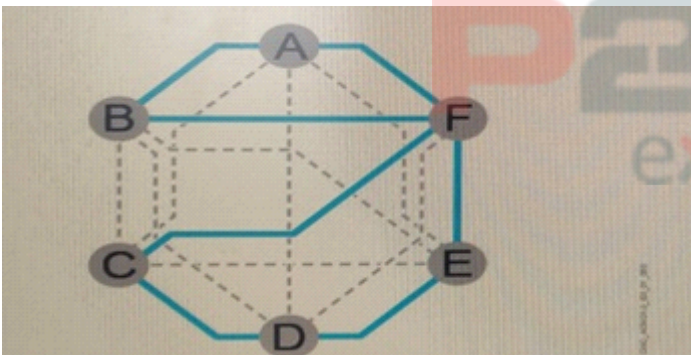
A)



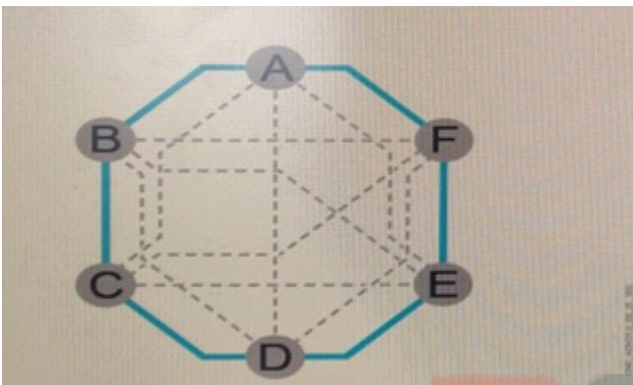
B)



C)



D)



Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

B

## Question 7

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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:

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

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Answer:

C

## Question 8

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Question Type: MultipleChoice

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Which of the following statements about Raman amplification is FALSE?

Options:

- A- Amplification occurs along the fiber
- B- Chromatic dispersion within the fiber is increased.
- C- Flat gain can be achieved in any transmission band.
- D- OSNR is improved compared to EDFAs permitting longer spans

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Answer:

D

## Question 9

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Question Type: MultipleChoice

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Which of the following statements about GMPLS features is FALSE?

Options:

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- A- GMPLS is able to manage the optical network through the DCN.
- 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:

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C

## Question 10

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Question Type: MultipleChoice

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Which of the following about the Optical channel Transport Unit (OUT0 in ONT network is correct?

Options:

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- A- OUT refer to the section between two multiplexers passing through one or more amplifiers.
- B- OUT refers to the section between two amplifiers.
- C- OUT enables the multiplexing of OCH connections.
- D- OUT enables FEC processing.

Answer:

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A



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