Question 1

Consider the exhibit. Which of the following NE architectures is represented?
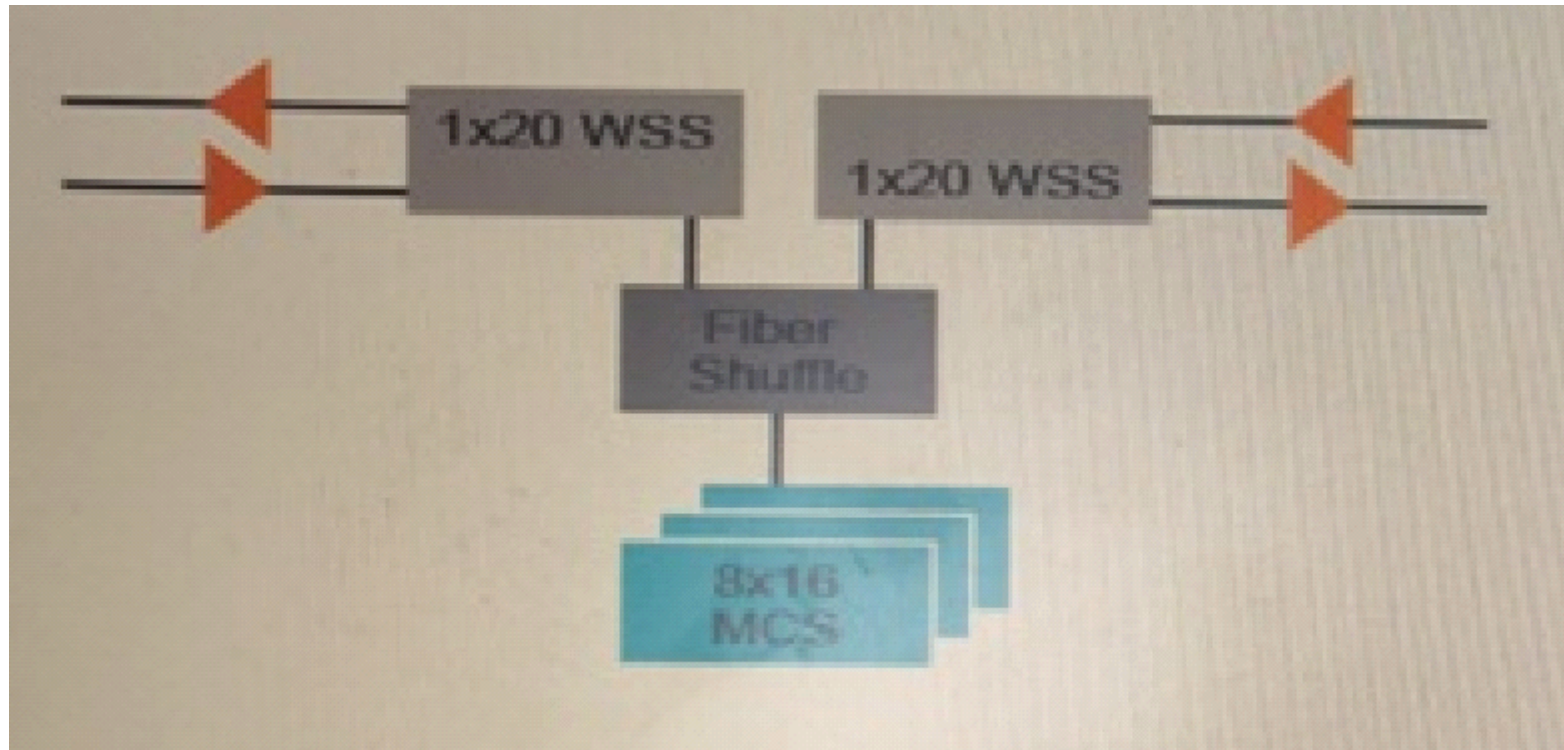
Options:

A- TOADm

B- (Classic) ROADM

C- C-F ROADM

D- CDC-F ROADm

Answer:

A

Question 2

Question Type: MultipleChoice

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

Options:

A- An OUT.

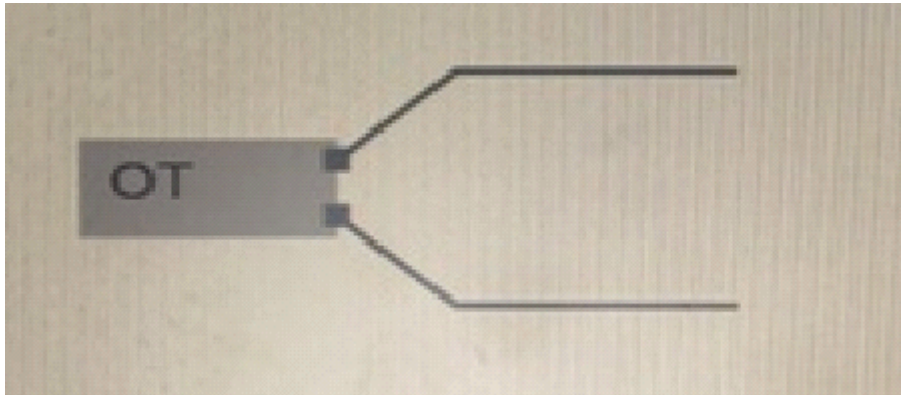**B-** An ODU.

C- An OPU.

D- An OH byte

Answer:

C

Question 3

Question Type: MultipleChoice

Consider the exhibit, where the two highest ports are OT line ports. Which of the following statements is correct?

Options:

A- The OCH protection is implemented.

B- The O-SNCP protection is implemented.

C- The E-SNCP protection is implemented.

D- An OPS is required upstream (left of the OT).

Answer:

D

Question 4

Question Type: MultipleChoice

What does region coloring in GMPLS enable?

Options:

A- Efficient spectral utilization

B- Multi-layer network support

C- Government level certification

D- Administrative segregation

Answer:

A

Question 5

Question Type: **MultipleChoice**

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

Options:

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:

A

Question 6

Which of the following statements about GMPLS features is FALSE?

Options:

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:

C

Question 7

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?
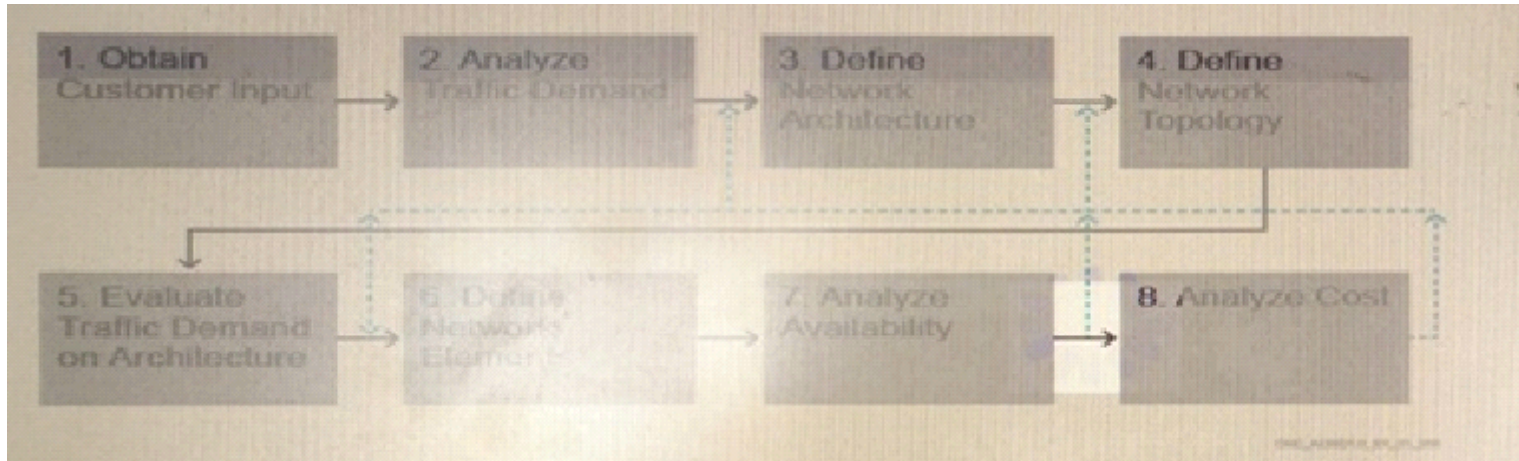
Options:

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.
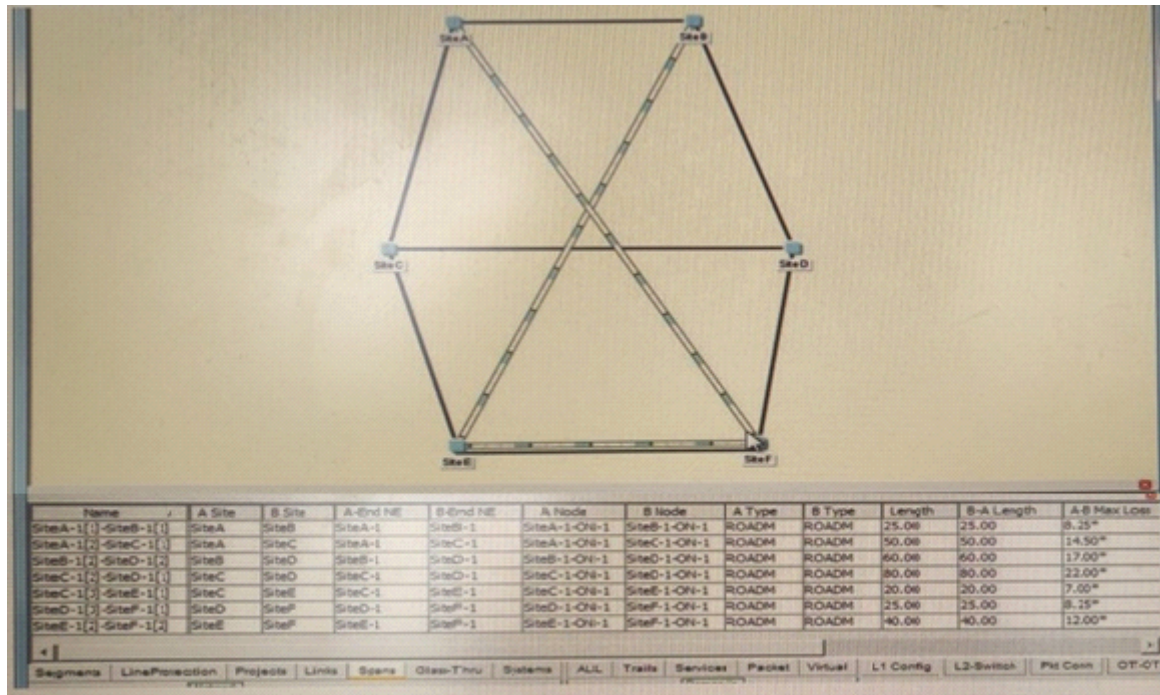
Question 8

Question Type: MultipleChoice

Consider the exhibit that shows a network design in EPT.

Seven segments are defined segment lengths are shown in the list below the network map.

3 services are defined each service carries a 10G signal, is protected by diverse path and is router by shorted distance.

Which of the following links is the heavily loaded?

Name	A Site	B Site	A-End NE	B-End NE	A Node	B Node	A Type	B Type	Length	B-A Length	A-B Max Loss
SiteA-1[1]-SiteB-1[1]	SiteA	SiteB	SiteA-1	SiteB-1	SiteA-1-ON-1	SiteB-1-ON-1	ROADM	ROADM	25.00	25.00	8.25°
SiteA-1[2]-SiteC-1[1]	SiteA	SiteC	SiteA-1	SiteC-1	SiteA-1-ON-1	SiteC-1-ON-1	ROADM	ROADM	50.00	50.00	14.50°
SiteB-1[2]-SiteD-1[2]	SiteB	SiteD	SiteB-1	SiteD-1	SiteB-1-ON-1	SiteD-1-ON-1	ROADM	ROADM	60.00	60.00	17.00°
SiteC-1[2]-SiteD-1[1]	SiteC	SiteD	SiteC-1	SiteD-1	SiteC-1-ON-1	SiteD-1-ON-1	ROADM	ROADM	80.00	80.00	22.00°
SiteC-1[3]-SiteE-1[1]	SiteC	SiteE	SiteC-1	SiteE-1	SiteC-1-ON-1	SiteE-1-ON-1	ROADM	ROADM	20.00	20.00	7.00°
SiteD-1[3]-SiteF-1[1]	SiteD	SiteF	SiteD-1	SiteF-1	SiteD-1-ON-1	SiteF-1-ON-1	ROADM	ROADM	25.00	25.00	8.25°
SiteE-1[2]-SiteF-1[2]	SiteE	SiteF	SiteE-1	SiteF-1	SiteE-1-ON-1	SiteF-1-ON-1	ROADM	ROADM	40.00	40.00	12.00°

Segments | LineProtection | Projects | Links | Spans | Glass-Thru | Systems | ALL | Trails | Services | Packet | Virtual | L1 Config | L2-Switch | Pkt Conn | OT-OT

Options:

A- Site A - Site B

B- Site C -- Site D

C- Site E - Site F

D- All three links have the same load

Question 9

Consider the exhibit. The grey sites (Site 1 through Site6) from an existing network, which will be extended by adding Site7 and Site8. Which of the following is NOT a common source of interoperability issues for this network extension?

Options:

A- Spectrum grid of the extension

B- Fiber connectors at Site6

C- Cascading in the existing network

D- Regeneration requirements at Site5

Answer:

B