



350-020
CCIE SP Optical Qualification

Exam number/code: 350-020
Exam name: CCIE SP Optical Qualification
Questions & Answers: 219 Q&A
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Exam: 350-020 Certification Questions & Answers

Question 1:

What feature of the spatial reuse protocol used in DPT allows for bandwidth reuse on the ring?

- A. Fairness algorithm
- B. Token controlled access
- C. Packet destination stripping
- D. Automatic topology discovery
- E. Multicast origination stripping

Answer: C

Question 2:

Exhibit:



The network shown supports Synchronous Status Messaging (SSM), which byte supplied by the ADM at Site B in both directions in the section overhead is used for transporting SSM messages?

- A. S1
- B. J1
- C. K2
- D. Z1
- E. None of the above

Answer: E

Question 3:

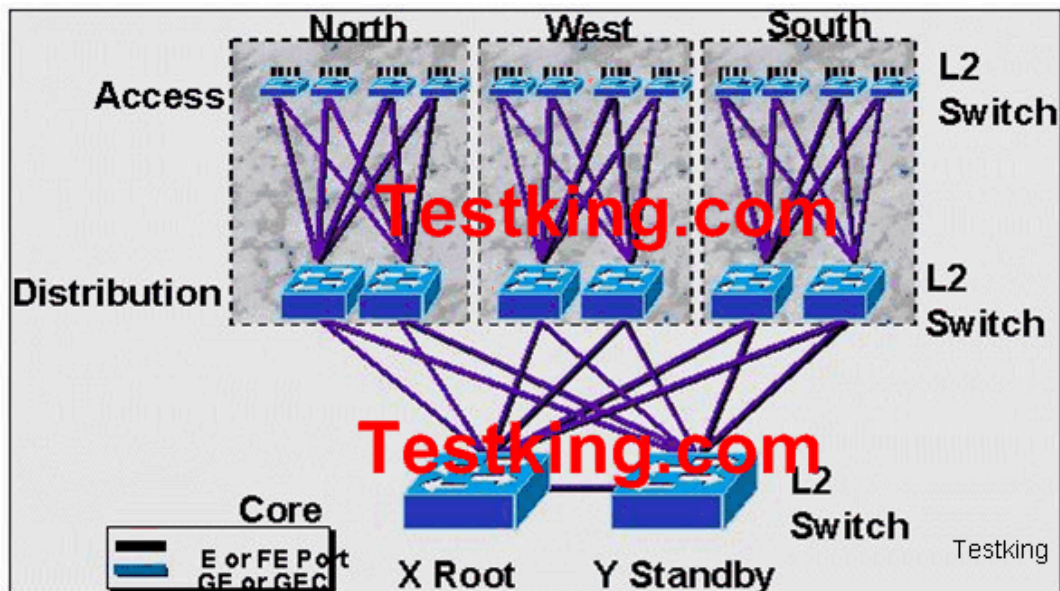
Why is an STM-1 2F MS-SPRing not feasible?

- A. An equal amount of working and protect bandwidth is needed per span.
- B. Standards have not yet been defined for STM-1 MS-SPRings.
- C. There is not enough bandwidth in an STM-1 ring to justify MS-SPRing configuration.
- D. DCC bandwidth is not large enough to handle K1/K2 processing.
- E. Switch times would exceed 50ms on an STM-1 MS-SPRing.

Answer: A

Question 4:

Exhibit:



The diagram shows an L2 switched campus. Switch X is the STP root and switch Y is the standby root. How many of the links in the diagram will be placed in blocking mode by STP?

- A. 6
- B. 7
- C. 12
- D. 13
- E. 18
- F. 19

Answer: E

Question 5:

What is NOT a key differentiator that Cisco offers to customers with the MDS that our competitors cannot?

- A. VSANs
- B. FCC
- C. QoS
- D. Port channeling

E. HSRP

Answer: E

Question 6:

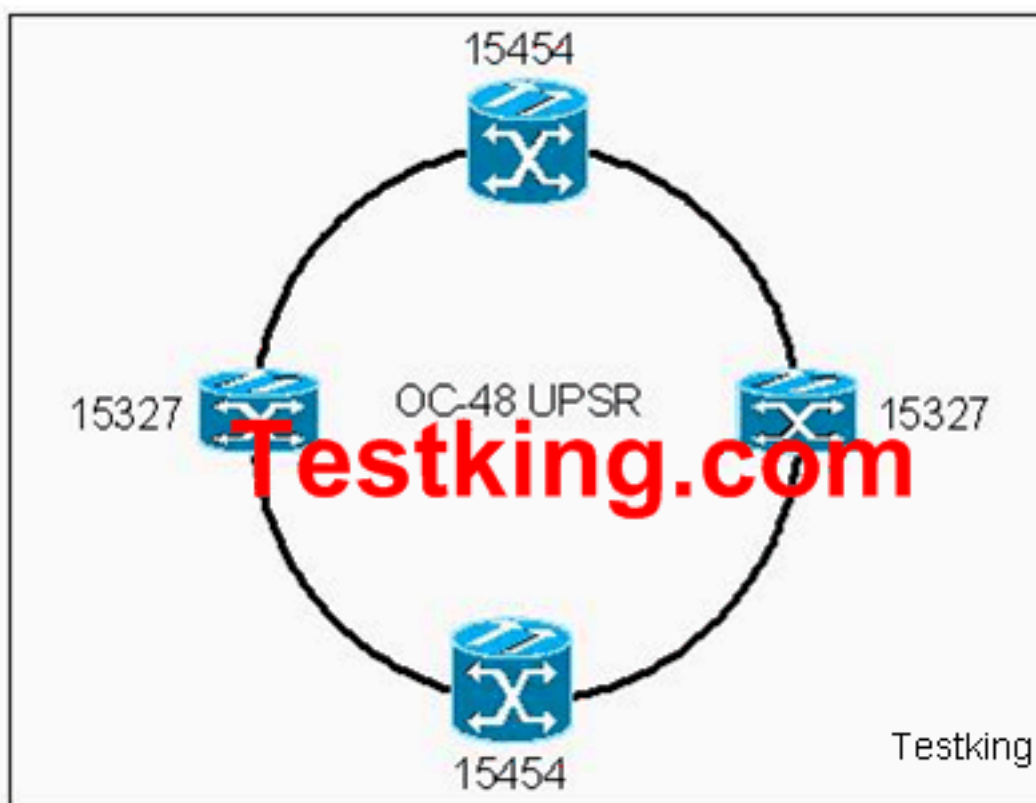
Telcordia has defined national ISDN, which is basically within the construct of Q.931 protocol with some modifications. If National ISDN requires a new information element (IE), how will this need be handled?

- A. No new IE can be defined by standard bodies other than ITU-T; therefore, Telcordia must pass the information in open fields of existing IE.
- B. Telcordia has to define a new codeset (CS) 0 IE.
- C. Telcordia should define a new CS7 IE
- D. Telcordia should define a new CS5 IE
- E. Use CS8 IE

Answer: D

Question 7:

Exhibit:



Which are the two possible circuit sizes for an E-series shared packet ring in the network shown in the exhibit?

- A. STS-1
- B. STS-3c
- C. STS-6c
- D. STS-9c
- E. STS-12c

Answer: A,B

Question 8:

The size of the payload part of a STM-N signal is:

- A. N x 252 columns by 9 rows
- B. N x 261 columns by 9 rows
- C. N x 270 columns by 9 rows
- D. N x 279 columns by 9 rows

Answer: B

Question 9:

Optical Supervisory Channel that connects Cisco DWDM active platforms is:

- A. 192Kb/s and the 33rd Lambda
- B. Ethernet Framed and the 33rd Lambda
- C. 32nd Lambda and not framed
- D. 10G and the 33rd Lambda

Answer: B

Question 10:

Exhibit:

```
10.1.1.0/24 through OSPF
10.1.0.0/16 through EIGRP
10.1.0.0/16 static
```

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If a router had the three routes listed, which one of the routes would forward a packet destined for 10.1.1.1?

- A. 10.1.0.0/16 through EIGRP, because EIGRP routes are always preferred over OSPF or static routes.
- B. 10.1.0.0/16 static, because static routes are always preferred over OSPF or EIGRP routes.
- C. 10.1.1.0/24 through OSPF because the route with the longest prefix is always chosen.
- D. Whichever route appears in the routing table first.
- E. The router will load share between the 10.1.0.0/16 route through EIGRP and the 10.1.0.0/16 static route.

Answer: C

Question 11:

When you are troubleshooting a POS installation and want to determine who you are physically connected to, which of the following SONET overhead bytes contains that information?

- A. A1 A2 bytes
- B. E1 Section Overhead byte
- C. C2 Path Signal
- D. J1 Path Trace
- E. K1K2 bytes

Answer: D

Question 12:

What wavelength window does a C-Band amplifier use?

- A. 1480-1510nm
- B. 1510-1540nm
- C. 1530-1560nm
- D. 1570-1600nm

Answer: C

Question 13:

The TCP PUSH flag indicates:

- A. The data in the TCP receive buffer should be sent to the application listening to this TCP connection without waiting for further data.
- B. Any data being buffered by routers between the source and destination for this connection should be sent immediately.
- C. The sender should make certain its send buffer is pushed onto the wire.
- D. This session is about to end.

Answer: A

Question 14:

What is the maximum PMD value of a 100km fiber segment if the cable is specified with 0.5ps/km ? (worst case)?

- A. 0.005ps
- B. .05ps
- C. 5ps
- D. 50ps
- E. 500ps

Answer: C

Question 15:

What are the three primary CTM product modules?

- A. CTM Server, CTM Client, Gateway Modules
- B. CTM Server, CTM Client, CiscoView
- C. CTM Server, CiscoWorks 2000, CiscoView
- D. CTM Server, Device Fault Manager, CiscoView

Answer: A

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