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Implementing and Operating Cisco Service Provider Network Core Technologies (300-501)

Exam Description: The Implementing and Operating Cisco Service Provider Network Core Technologies v1.0 (SPCOR 350-501) exam is a 120-minute exam associated with the CCNP Service Provider, CCIE Service Provider, and Cisco Certified Specialist - Service Provider Core certifications. This exam tests a candidate's knowledge of implementing core service provider network technologies including core architecture, services, networking, automation, quality of services, security, and network assurance. The course, Implementing and Operating Cisco Service Provider Network Core Technologies, helps candidates to prepare for this exam.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

15%	1.0	Architecture
	1.1	Describe service provider architectures
		1.1.a Core architectures (Metro Ethernet, MPLS, unified MPLS, SR)
		1.1.b Transport technologies (Optical, xDSL, DOCSIS, TDM, and xPON)
		1.1.c Mobility (packet core, RAN xHaul transport for 4G and 5G)
	1.2	Describe Cisco network software architecture
		1.2.a IOS
		1.2.b IOS XE
		1.2.c IOS XR
	1.3	Describe service provider virtualization
		1.3.a NFV infrastructure
		1.3.b VNF workloads
		1.3.c OpenStack
	1.4	Describe QoS architecture
		1.4.a MPLS QoS models (Pipe, Short Pipe, and Uniform)
		1.4.b MPLS TE QoS (MAM, RDM, CBTS, PBTS, and DS-TE)
		1.4.c DiffServ and IntServ QoS models
		1.4.d Trust boundaries between enterprise and SP environments
		1.4.e IPv6 flow label
	1.5	Configure and verify control plane security
		1.5.a Control plane protection techniques (LPTS and CoPP)
		1.5.b BGP-TTL security and protocol authentication
		1.5.c BGP prefix suppression
		1.5.d LDP security (authentication and label allocation filtering)

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Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q30-Q35):

NEW QUESTION # 30
Refer to the exhibit.
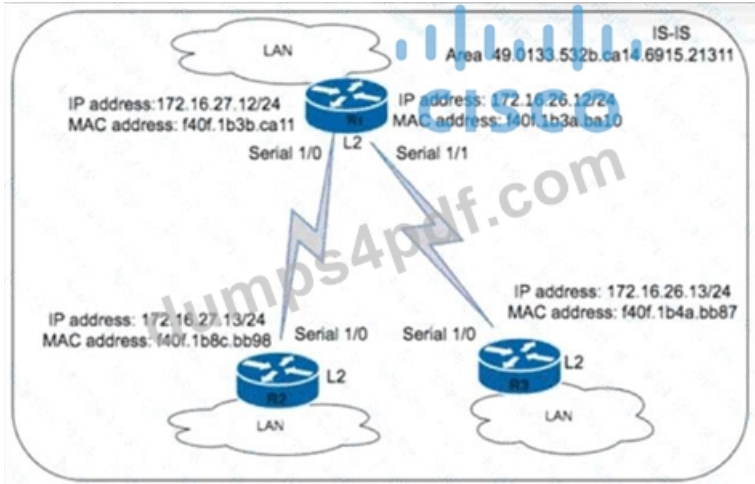
An engineer with an employee 10:4350:47:853 is implementing IS-IS as the new routing protocol in the network. All routers in the network operate as Level 2 routers in the same private autonomous system, and the three branches are connected via dark fibre. The engineer has already implemented IS-IS on router R1 with NET address 49.0133.532b.ca14.6915.21311.F40F.1B3a.ba10.00. Which IS-IS NET address configuration must be implemented on R3 to establish IS-IS connectivity?

- A. 48.0133.532b.ca14.6915.21311.f40f.1626.bb98.00
- B. 49.0133.532b.ca14.6915.21311.1721.1b4a.0013.01
- C. 49.0135.332b.ca14.6975.28371.1721.1b3b.ca11.10
- D. 49.0133.532b.ca14.6915.21311.f40f.1b4a.bb87.00

Answer: D

Explanation:
IS-IS uses NET addresses to identify each router in the network, and the NET address of each router must be unique. In order for IS-IS to establish connectivity between R1 and R3, the NET address of R3 must be different from the NET address of R1, but it must also follow the same structure. In this case, the NET address of R1 is 49.0133.532b.ca14.6915.21311.F40F.1B3a.ba10.00, so the NET address of R3 must be
49.0133.532b.ca14.6915.21311.F40F.1B4a.bb87.00.

NEW QUESTION # 31
Refer to the exhibit.

```
Router 1:

router isis
  net 49.0011.0000.0000.0001.00

Router 2:

router isis
  net 49.0001.0000.0000.0001.00

Router 3:

router isis
  net 49.0011.0000.0000.0002.00
```

Router 4 is added to the network and must be in the same area as router 1. Which NET should the engineer assign?

- A. 49.0011.0000.0000.0003.00
- B. 49.0011.0000.0000.0002.00
- C. 49.0001.0000.0000.0004.00
- D. 49.0111.0000.0000.0001.00

Answer: A

NEW QUESTION # 32

Drag and drop the functionalities from the left onto the correct target fields on the right.

Answer:

Explanation:

NEW QUESTION # 33

What are the four primary components of an API?

- A. GET, PUT, DELETE, and SET
- B. running config, startup config, VLAN database, and routing database
- C. Modularity, Abstraction, Stability, and Resources
- D. methods, actions, objects, and formats

Answer: D

NEW QUESTION # 34

Refer to the exhibit:


```
telemetry model-driven
sensor-group cisco
sensor-path Cisco-IOS-XR-infra-statsd-oper:infra-statistics/interfaces/interface/latest/generic-counters
commit
```

This configuration is being applied on an IOS XR router.
Which statement about this configuration is true?

- A. It is used to identify traps for SNMP polling
- B. It is used to identify MIB entries and has a list of YANG models
- C. It is used to create a sensor-group and has a list of YANG models for streaming
- D. It is used to create a subscription to specify the streaming interval

Answer: C

NEW QUESTION # 35

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