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Exam : **Alcatel-Lucent 4A0-101**

Title : Alcatel-Lucent Scalable IP Networks

Update : Dmeo



1. How many databases does a Link State routing protocol use?

- A. One
- B. Two
- C. Three
- D. Four

Answer: C

2. In an IP datagram, which field identifies the receiving application

- A. The protocol field of the transport layer header
- B. The port field of the transport layer header
- C. The protocol field of the network layer header
- D. The port field of the network layer address

Answer: B

3. A static route is created using the command "static-route 0.0.0.0/0 next-hop 3.3.3.1". What command could be used to test the static route on an Alcatel-Lucent 7750 SR?

- A. ping static 3.3.3.1
- B. ping static 0.0.0.0/0
- C. ping 3.3.3.1
- D. ping 0.0.0.0

Answer: C

4. A static route is created using the command "static-route 2.3.4.0/24 next-hop 1.2.3.4". What is the correct traceroute command to test this static route on an Alcatel-Lucent 7750 SR?

- A. traceroute 2.3.4.1
- B. traceroute 2.3.4.0/24 next-hop 1.2.3.4
- C. traceroute next-hop 1.2.3.4
- D. traceroute does not work on the Alcatel-Lucent 7750 SR

Answer: A

5. Which one of the commands below will create a static route to network 2.3.4.0/24 on the Alcatel-Lucent 7750 SR router?

- A. static route 2.3.4.0 255.255.255.0 next hop 3.4.5.6
- B. static-route next-hop 3.4.5.6 2.3.4.0/24
- C. static route 2.3.4.0/24 next hop 3.4.5.6
- D. static-route 2.3.4.0/24 next-hop 3.4.5.6

Answer: D

6. A default route for a client is also known as the:

- A. Default path
- B. Default gateway
- C. Gateway path
- D. Proxy ARP

Answer: B

7. What is the default preference value for a static route in the Alcatel-Lucent 7750 SR router?

- A. 0
- B. 5
- C. 10
- D. 15

Answer: B

8. What command could be used to verify proper configuration of a static route in an Alcatel-Lucent 7750 SR router?

- A. show route-table
- B. show router routing-table
- C. show router route-table
- D. show static

Answer: C

9. What address is used when RIPv2 uses multicast to send its updates?

- A. 224.0.0.5
- B. 224.0.0.6
- C. 224.0.0.9
- D. 224.0.0.10
- E. RIPv2 does not have support for multicast

Answer: C

10. What is the metric and maximum routable value for RIP?

- A. Hop count and 16
- B. Hop count and 15
- C. Link cost and 15
- D. Link cost and 16

Answer: B

11. What modes of authentication are supported for RIPv2 on the Alcatel-Lucent 7750 SR?

- A. RIPv2 supports basic and MD5 authentication only.
- B. RIPv2 supports password and MD5 authentication only.
- C. RIPv2 does not support authentication, password and MD5 authentication.
- D. RIPv2 does not support authentication.

Answer: C

12. Which of the following is NOT a characteristic of RIPv1?:

- A. 30 second network updates
- B. Classless routing
- C. Broadcast advertisement

D. Poison Reverse

Answer: B

13. What is the default inbound metric for RIP on the Alcatel-Lucent 7750 SR?

- A. Whatever the advertised metric happens to be.
- B. A value of 1.
- C. This must be administratively set as there is no default value.
- D. A value of 15.

Answer: B

14. Identify two attributes of Distance Vector Protocols: (Choose two)

- A. Use split horizon by default.
- B. Send information about directly connected links to neighbors at periodic intervals.
- C. Use holddown timers when topologies change to allow for convergence.
- D. Maintain multiple databases: neighbor, topology and routing.

Answer: AC

15. Choose the Distance Vector Protocols from the list below:

- A. OSPF
- B. RIPv1
- C. RIPv2
- D. IS-IS

Answer: BC

16. What must be configured on the Alcatel-Lucent 7750 SR for RIP to advertise locally attached links?

- A. A policy statement within the router identifying what is to be advertised
- B. Access-lists denoting what is to be advertised
- C. Default metrics for each link
- D. A group and neighbor statement for each peer

Answer: A

17. In an OSPF environment what must a router receive after it sends out an update?

- A. The router must receive an acknowledgment
- B. The router must receive a Hello
- C. The router must receive a new sequence number
- D. The router must receive a Link State Packet

Answer: A

18. An OSPF router receives an update with a sequence number the same as the sequence number already in the topological database. What action is taken by the router?

- A. The link state information is not populated in the database but is forwarded to all neighbors
- B. The link state information already in the database is overwritten and the age is reset
- C. The link state information is not populated in the database and an acknowledgement is sent

D. The link state information is regarded as old and nothing is done.

Answer: C

19. From the list below select the statements that describe the behavior of link state information aging. (Choose 2)

- A. The age for newly created link state information is set to 0 for OSPF and 1200 for IS-IS
- B. The age for newly created link state information is set to 1200 for OSPF and 0 for IS-IS
- C. The age is incremented or decremented as it is flooded from router to router and as it is held in the topological database.
- D. The age is incremented or decremented only as it is held in the topological database and not as it is flooded router to router.

Answer: AC

20. What are the three databases maintained by a Link State Protocol?

- A. Neighbor, adjacency, route table
- B. Neighbor, topology, forwarding
- C. Topology, routing, forwarding
- D. There are only two databases: adjacency and topology

Answer: B

21. Which of the statements below best describes the pseudonode in an IS-IS network?

- A. The DIS creates a logical node to represent a group of routers on the same non-broadcast network; this node is the pseudonode
- B. The DIS creates a logical node to represent the topological database of the backbone network in an IS-IS network; this node is the pseudonode
- C. The DIS creates a logical node to represent a broadcast sub-network; this node is the pseudonode
- D. The DIS creates a logical node to represent the complete topology of an IS-IS area; this node is the pseudode

Answer: C

22. What command will show the IS-IS neighbors, and their status on an Alcatel-Lucent 7750 SR?

- A. show isis neighbors
- B. show router isis neighbors
- C. show router isis adjacency
- D. show isis adjacency

Answer: C

23. What are the types of routers in an IS-IS topology? Choose all that apply.

- A. Level 0
- B. Level 1
- C. Level 2
- D. Level 0/1
- E. Level 1/2

Answer: BCE

24. What command allows analysis of the Dijkstra calculation on the Alcatel-Lucent 7750 SR?

- A. there is no such calculation in IS-IS
- B. show router isis database
- C. show router isis dijkstra
- D. show router isis spf

Answer: D

25. What is the term used for the updates sent by IS-IS?

- A. Link State PDUs
- B. Link State Updates
- C. Link State Advertisements
- D. Intermediate System Update Packets

Answer: A

26. What is the value of the protocol discriminator used to denote IS-IS protocol information?

- A. 89
- B. 87
- C. 85
- D. 83

Answer: D

27. What types of routers can an IS-IS L1 router form adjacencies with? Pick all that apply.

- A. L1 routers in the same area
- B. L1 routers in other areas
- C. L2 routers in the same area
- D. L2 routers in other areas
- E. L1/L2 router in the same area
- F. L1/L2 routers in other areas

Answer: AE

28. What value should the AFI be set to for locally administered addressing?

- A. 1
- B. 49
- C. 83
- D. 0

Answer: B

29. What are the similarities between OSPF and IS-IS? Choose two.

- A. Metric is cost based
- B. Slow convergence
- C. Automatic summarization

D. Support CIDR

Answer: AD

30. Click the exhibit button

The following IS-IS packets have been exchanged between 2 adjacent IS-IS routers. What type of adjacency will be formed?

```

TX·ISIS·PDU·ifId·3·len·59:
..Proto·Disc·····:131
..Header·Len·····:27
..Version·PID·····:1
..ID·Length·····:0
..Version·····:1
..Reserved·····:0
..Max·Area·Addr··:3
PDU·Type·····:
  (0f)·Level·1·LAN·IS-IS·Hello·Pdu
..Circuit·Type····:L1L2
..Source·Id·····:00·20·02·00·20·02
..Hold·Time·····:27
..Packet·length··:42
..Priority·····:64
..LAN·Id·····:00·20·02·00·20·02·03
..Area·Addresses:
....Area·Address···:(3)·49·00·02
..Supp·Protocols:
....Protocols·····:IPv4
  
```

```

TX·ISIS·PDU·ifId·2·len·59:
..Proto·Disc·····:131
..Header·Len·····:20
..Version·PID·····:1
..ID·Length·····:0
..Version·····:1
..Reserved·····:0
..Max·Area·Addr··:3
PDU·Type·····:
  (11)·Point-2-Point·IS-IS·Hello·Pdu
..Circuit·Type····:L1L2
..Source·Id·····:00·20·02·00·20·02
..Hold·Time·····:27
..Packet·length··:42
..Circuit·Id·····:0
..Area·Addresses:
....Area·Address···:(3)·49·00·02
..Supp·Protocols:
....Protocols·····:IPv4
  
```

- A. An L1 adjacency will be formed.
- B. An L1/L2 adjacency will formed
- C. L2 adjacency will be formed
- D. No adjacency will be formed

Answer: D

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