

## 350-023 CCIE

### Cisco CCIE Written: WAN Switching

**Practice Exam:** 350-023 Exams

**Exam Number/Code:** 350-023

**Exam Name:** CCIE Written: WAN Switching

**Questions and Answers:** 400 Q&As

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1. A Peer group leader is chosen by:

- A. Dynamic process within a peer group
- B. All nodes in the peer group
- C. The highest node ID as a tiebreaker
- D. The lowest node ID as a tiebreaker
- E. Selecting the node that is physically connected to a different peer group

Answer: ABC

2. What ATM cell header contains a generic flow control (GFC) field?

- A. The NNI ATM cell
- B. The UNI ATM cell
- C. Both UNI and NNI
- D. None of the above

Answer: B

3. To eliminate the need for adjacent routers on broadcast networks to form  $n(n-1)/2$  adjacencies, IS-IS defines a pseudonode or Designated Intermediate System, DIS. All router on the broadcast medium form an adjacency with the DIS. The Backup DIS is called:

- A. Redundant DIS
- B. BDR
- C. There is no concept of a backup DIS in IS-IS
- D. Designated Redundant System

Answer: C

4. A router is receiving updates for a subnet from different routing protocols. The administrator wishes to take advantage of a path via a route with a less favorable Administrative Distance. What can be done to effect this without losing any of the updates?

- A. Configure a static route with an Administrative Distance of 120
- B. Use the Router Configuration mode command distance with an appropriate 'weight' for this subnet
- C. Create a distribute-list to block this subnet
- D. Modify the default-metric weight of the routing protocol offering the more favorable Administrative Distance

Answer: B

5. A network administrator is using debug commands to check the performance of a network. What steps can the administrator take to ensure that the "debug" will not require too much CPU, or at least that she will not have to reboot the router to disable debug? (multiple answer)

- A. Make the debug command as specific as possible
- B. Use the max-time parameter of the debug command
- C. In configuration mode, enter scheduler interval 15
- D. Configure a loopback to channel debug traffic

Answer: AC

6. In Frame Relay, what devices resend packets that do not transmit correctly?

- A. Digital transmission media cabled to monitor ports, as opposed to straight DCE signaling
- B. Network end stations
- C. Network switches running SNMP management software
- D. Special bridging devices within the backbone cloud

Answer: B

7. An IGX-8 identifies itself as an IGX-32 on the configuration screen. What has gone wrong?

- A. The NPM was originally in an IGX-32.
- B. Database corruption has occurred.
- C. The user must physically set a jumper on the SCM to correct this.
- D. Use the setnovram command to change the switch type.

Answer: C

8. What is the primary benefit of the "time-to-live" field in the IP header?

- A. To improve buffer utilization
- B. To reduce the impact of routing loops
- C. To allow calculation of round-trip delays
- D. To remind us that all earthly joys are fleeting
- E. To avoid delivery of packets that are no longer useful

Answer: B

9. A router interface address is 180.60.45.96 with a mask of 255.255.255.224. What configuration statement will allow this interface to participate in OSPF Area 0?

- A. router ospf 1 network 180.60.45.96 255.255.255.32 area 0
- B. router ospf 1 network 180.60.45.96 0.255.255.224 area 0
- C. router ospf 1 network 180.60.45.96 0.0.0.31 area 0
- D. router ospf 1 network 180.60.45.96 0.0.0.224 area 0

Answer: C

10. On each LAN segment with multiple bridges running spanning tree, the bridge closest to the:

- A. Designated bridge is selected as root bridge
- B. Root bridge is selected as designated bridge
- C. Root bridge is not selected as designated bridge
- D. Designated bridge is not selected as root bridge

Answer: B

11. In PNNI networks, AESA has the following general format:

- A. 12-byte network prefix plus a 7-byte End System Identifier plus 1 byte Selector
- B. 11-byte network prefix plus an 8-byte End System Identifier plus 1 byte Selector
- C. 7-byte network prefix plus a 12-byte End System Identifier plus 1 byte Selector.
- D. 13-byte network prefix, a 6-byte End System Identifier plus 1 byte Selector

Answer: D

12. What is an advantage of cell technology?

- A. Cell technology simplifies the hardware/software architecture allowing for faster switching fabrics.
- B. Cells have less overhead.
- C. Cell technology guarantees end-to-end error control.
- D. Cell technology allows faster switching of IP packets.

Answer: A

13. What is Fast EtherChannel?

- A. A feature to bundle multiple Ethernet point-to-point links quickly into one logical high speed link
- B. A feature to bundle multiple Fast-Ethernet point-to-point links into one logical high speed link

- C. Another name for full-duplex Fast Ethernet
- D. Another name for Gigabit Ethernet
- E. None of the above

Answer: B

14. Cisco/StrataCom (Gang of four) LMI uses what DLCI for messages?

- A. 0
- B. 1023
- C. It should be configurable, as per the specification.
- D. It is negotiated when the ports become active.

Answer: B

15. When using IS-IS for IP routing, Dual IS-IS defined by RFC 1195, what is true? (multiple answer)

- A. It is necessary to configure a NSAP address.
- B. It is not possible to perform both IP and CLNS routing with the same process.
- C. IP address and subnet information is carried in the TLV field on the L-1/L-1 LSPs.
- D. Dual IS-IS does not support VLSM information.

Answer: AC

16. Which are characteristics of VAD?

- A. VAD is used with ADPCM voice connections only.
- B. VAD makes voice traffic bursty.
- C. VAD will add delay to a voice connection.
- D. VAD connections use less bandwidth on the trunks.

Answer: BD

17. Click the Exhibit button to view the topology. Using the above diagram, which are valid BGP AS\_Path Attributes received at Net1 for a route originating from AS65100? (multiple answer)

- A. 200 57000 100 65100
- B. 200 57000 100 100
- C. 100 57000 200
- D. 200 57000 100
- E. 65100 100 57000 200

Answer: ADE

18. While entering commands on a console, the break key is pressed accidentally and the router reboots. What action could disable this problem?

- A. In configuration mode, enter disable break .
- B. In configuration mode, enter no service break .
- C. Change the configuration register.
- D. Replace the router - this is an invalid response to pressing the break key when past 60 seconds after boot.

Answer: C

19. What is true about the DLCI field in the Frame Relay header?

- A. It consists of two portions, source and destination, which map data to a logical channel.
- B. It generally has significance only between the local switch and the DTE device.
- C. It is an optional field in the ITU-T specification.
- D. It is present only in data frames sent through the network.

Answer: B

20. The default network clocking source in a BPX network is:

- A. The internal oscillator of the lowest-numbered node
- B. The internal oscillator of the highest-numbered node

- C. Each node's own internal oscillator
- D. The clock chip on the network management system

Answer: B

21. What best describes ADPCM?

- A. It stands for Advanced Duplicate Packet Code Marking.
- B. It specifies no transmission of data during silent periods of voice conversation.
- C. It allows synchronous data to be carried over voice card technology.
- D. It compresses voice from 64K per channel to 32K, 24K, or 16K per channel.
- E. It compresses voice from 64k to approximately 8k.

Answer: D

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