



**350-029**

**CCIE SP Written Exam**

**Exam number/code:** 350-029

**Exam name:** CCIE SP Written Exam

**Questions & Answers:** 219 Q&A

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**Exam: 350-029 Certification Questions & Answers**

**Question 1:**

What is the function of the AJB bits on DS1 using Extended Super Frame (ESF)?

- A. It is used for a control and performance information.
- B. It is used for signaling on-hook and off-hook status.
- C. It carries CRC information for error detection.
- D. It is used for a frame's synchronization and alignment.

**Answer: B**

**Question 2:**

An architecture that utilizes PPPoE deals with IP address allocation by what type of negotiation?

- A. NIS
- B. IPCP
- C. RADIUS
- D. LDAP
- E. DHCP

**Answer: B**

**Question 3:**

Pick the 4 valid ATM Cell Header fields:

- A. Forward-explicit congestion notification(FECN)
- B. ATM Discard Eligibility(DE) bit
- C. HEC-8 bit of header error control
- D. GFC-4 bits of generic flow control
- E. CLP-1 bit of congestion loss
- F. VCI-16 bits of virtual channel identifier

**Answer: C,D,E,F**

**Question 4:**

Which two statements are true?

- A. An internal BGP (iBGP) network cannot have Route-Reflectors within a Confederation because Confederation works between External Autonomous System (AS) numbers.
- B. An internal BGP (iBGP) network can have Route-Reflectors within a Confederation.
- C. Clusters are used in Route-Reflector schemes to avoid loops.
- D. A confederation uses confederation clusters to avoid routing loops.

**Answer: B,C**

**Question 5:**

When configuring Multicast VPN (MVPN) over an MPLS core, both the Default and Data MDT is configured under which configuration mode?

- A. router(config-router-af)#
- B. router(config)#
- C. router(config-router)#
- D. router(config-vrf)#
- E. router(config-if)#

**Answer: D**

**Question 6:**

Which 4 statements regarding MPLS Label Stack Encoding is true?

- A. A value of 3 represents the "Implicit NULL Label"
- B. A value of 4 represents the "Implicit NULL Label."
- C. A value of 2 represents the "IPv6 Explicit NULL Label"
- D. A value of 1 represents the "IPv1 Explicit NULL Label"
- E. A value of 0 represents the "IPv4 Explicit NULL Label."
- F. A value of 1 represents the "Router Alert Label". The use of this label is analogous to the use of the "Router Alert Option" in IP packets (for example, ping with record route option).

**Answer: A,C,E,F**

**Question 7:**

Which two statements best describe EtherChannel?

- A. EtherChannel is defined for Rapid Spanning Tree for faster convergence.
- B. EtherChannel technology helps aggregate traffic grouping multiple, full-duplex point-to-point links together
- C. EtherChannel technology is based on the 802.1 IEEE standard
- D. EtherChannel can aggregate up to 800 Mbps, 8Gbps, or 80 Gbps of aggregate bandwidth for a Fast EtherChannel, Gigabit EtherChannel, or 10 Gigabit EtherChannel connection respectively.

**Answer: B,D**

**Question 8:**

Which two statements are true? Select all that apply.,

- A. DPT/RPR is defined in the IEEE 802.17 standard and it uses Token Bucket system to avoid collisions on the fiber.
- B. DPT/RPR uses a bi-directional ring consisting of two symmetric counter rotating fibre rings.
- C. In DPT/RPR rings, data packets can be sent in one direction (downstream) and the corresponding control packets in the opposite direction (upstream), thus using both fibres concurrently to maximise bandwidth.
- D. DPT/RPR can be deployed in the Core of the SP networks where point-to-point POS links are used to make best use of the Bandwidth.

**Answer: B,C**

**Question 9:**

Which of the following are steps to configure destination-based Remote Triggered Black Hole(RTBH) filtering?(choose three)

- A. Activate black hole by redistributing route for victim into BGP with next-hop set to the static(reserved) host route configured on edge routers.
- B. Configure OSPF between trigger router and black hole routes
- C. Configure BGP between trigger and black hole routers.
- D. Configure on trigger router to advertise victim host route with community
- E. Configure all edge routers with static (reserved) host route to Null0

**Answer: A,C,E**

**Question 10:**

Which two statements regarding the IS-IS DIS election process are true? (Choose Two.)

- A. A priority of 0 will prevent a router from becoming a DIS.
- B. Separate L1 and L2 election processes are held on a broadcast network.
- C. Adding a router with a higher priority than the current DIS will result in the new router becoming DIS.
- D. L1 routers on a broadcast network only establish adjacencies with the DIS.
- E. If there is a tie based on priority, the router whose attached interface has the lowest MAC address becomes the DIS.
- F. If the DIS becomes unavailable the backup DIS is promoted to DIS.

**Answer: B,C**

**Question 11:**

Which of the following comparison of Control Plane Policing (CoPP) with Receive ACL(Racl) is correct?

- A. CoPP applies to a dedicated control plane interface; Racl applies to all interfaces.
- B. CoPP protects against IP spoofing; Racl protects against DoS attacks.
- C. CoPP can not use named access lists; Racl can use named access lists
- D. CoPP supports rate limits; Racl does not support rate limits
- E. CoPP needs a AAA server; Racl does not need a AAA server

**Answer: A,D**

**Question 12:**

What is the function of the A/B bits on DS1 using Extended Super Frame (ESF)?

- A. It is used for signaling on-hook and off-hook status.
- B. It carries CRC information for error detection.
- C. It is used for a control and performance information.
- D. It is used for a frame's synchronization and alignment.

**Answer: A**

**Question 13:**

What statement is true?

- A. Link Control Protocol(LCP) is used for basic PPP link setup and operation
- B. None of the other alternatives apply.
- C. Link Control Protocol(LCP) for PPP is synonymous to ARP for Ethernet.
- D. Link Control Protocol(LCP) is used for denying PPP connections to unauthorized devices.

**Answer: A**

**Question 14:**

The following exhibit displays the BGP peelings, which three solutions are true?

Exhibit:



- A. TestKing1 and TestKing4 are route-reflector-clients; TestKing2 and TestKing3 are route reflectors part of the different cluster.
- B. TestKing1, TestKing2 and TestKing3 are part of a confederation sub-AS and TestKing4 is part of a different confederation sub-AS
- C. TestKing1, TestKing2 and TestKing3 are part of a confederation sub-AS where TestKing2 is a route reflector and TestKing1, TestKing3 are route-reflector-clients
- D. TestKing1, TestKing2 are part of one confederation sub-AS and TestKing3, TestKing4 are part of a different confederation sub-AS

**Answer: A,C,D**

**Question 15:**

The ASBR-summary LSA is :

- A. Generated by the ABR and describes reachability to the ASBR for routers in the same area with the ASBR
- B. Generated by the ASBR and describes reachability to itself
- C. Generated by the ASBR and describes reachability to the ABR
- D. Generated by the ABR and describes reachability to the ASBR for routers in a different area from the ASBR

**Answer: D**

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