



H12-221^{Q&As}

HCIP-Routing & Switching-IERS V2.5

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**QUESTION 1**

A company has four departments. Department A has 80 PCs, Departments B and C both have 20 PCs, and Department D has 30 PCs. Assuming the IP address 192.168.1.0/x is used, which of the following statements are true if the VLSM technology is employed for subnetting? (Select 2 answers)

- A. Plan subnet 192.168.1.0/25 for Department A. The range of host addresses is 1 to 126.
- B. Plan subnet 192.168.1.128/27 for Department B. The range of host addresses is 129 to 159.
- C. Plan subnet 192.168.1.160/27 for Department C. The range of host addresses is 161 to 190.
- D. Plan subnet 192.168.1.192/27 for Department D. The range of host addresses is 192 to 222.

Correct Answer: AC

QUESTION 2

Which of the following statements about OSPF neighbor state transition are true? (Select 3 answers)

- A. The neighbor state transitions from "Loading" to "Full" when a LoadingDone event occurs.
- B. The neighbor state transitions from the "Exstart" to "full" when a Negotiation Done event occurs.
- C. The neighbor state transitions from the "Exchange" to "Full" when an ExchangeDone event occurs.
- D. The neighbor state transitions from "Exchange" to "Loading" when an ExchangeDone event occurs.

Correct Answer: ACD

QUESTION 3

RTA is a source's DR and RTB is an RP. A multicast source sends multicast data to RTA but RTB cannot find any information about the multicast source (registered by using the PIM Register message). Why? (Select 3 answers)

- A. RTB has no unicast routes to RTA,
- B. RTA fails to learn RP information.
- C. RTA has no unicast routes to RTB.
- D. The RPLearned by RTA is not RTB.

Correct Answer: BCD

QUESTION 4

Which of the following BGP attributes cannot be advertised to other neighboring AS?



A. LOCAL_PREF

B. AS_PATH

C. COMMUNITY

D. ORIGIN

Correct Answer: A

QUESTION 5

Which of the following statements are incorrect regarding Link ID of Router LSA in an OSPF routing protocol? (Select 2 answers)

A. The Link ID of point-to-point links are the neighbors Interface IP address.

B. The Link ID of TransNet links are the network address of TransNet network segment.

C. The Link ID of StubNet links are the network address of stub network.

D. The Link ID of virtual links are the neighbor's Router ID of virtual link.

Correct Answer: AB

QUESTION 6

Over a working TCP connection, what is the state of the BGP peer relationship if the peer AS number configured for a BGP router is inconsistent with the AS number of its BGP peer?

A. Idle

B. Active

C. OpenSent

D. Established

Correct Answer: B

QUESTION 7

BGP speakers sends which type of message to identify its peer's AS number information?

A. Route-refresh

B. Open

C. Keepalive

D. Update



Correct Answer: B

QUESTION 8

Which of the following is a private AS number?

- A. 65410-65535
- B. 1-64511
- C. 64512-65535
- D. 64511-65535

Correct Answer: C

QUESTION 9

Enabling MD5 authentication between BGP peers can prevent DoS attacks that target BGP peers.

- A. TRUE
- B. FALSE

Correct Answer: A

QUESTION 10

Which statement about OSPF is false?

- A. Hello messages are used as a form of greeting to discover other routers on its networks and establish relationships between neighboring devices. On broadcast or NBMA networks, Hello messages can also be used to elect a DR or a BDR.
- B. DD packets describe the summary LSDB information by carrying LSA headers.
- C. The intervals at which two routers send Hello messages must be consistent; otherwise, cannot be established relationships between neighboring devices.
- D. DD packets contain headers of all LSAs for periodic LSDB synchronization between OSPF neighbors.

Correct Answer: D

QUESTION 11

One route-policy may have several nodes with each node containing a node ID. Each node may also have multiple "if-match" and "apply" clauses. Which of the following statements are true? (Select 2 answers)

- A. Different nodes are in an OR relationship.



- B. Different nodes are in an AND relationship.
- C. If-match clauses of a node are in an AND relationship,
- D. If-match clauses of a node are in an OR relationship.

Correct Answer: AC

QUESTION 12

RTA and RTB are interconnected through a FE interface in an OSPF area. Which of the following can be used to configure the link cost between RTA and RTB as 10? (Select 2 answers)

- A. Use command "ospf cost 10" on the two routers
- B. Use command "ospf cost 5" on the two routers
- C. Use command "bandwidth-reference 500" on the two routers to change bandwidth-reference value
- D. Use command "bandwidth-reference 1000" on the two routers to change bandwidth-reference value

Correct Answer: AD

QUESTION 13

Which of the following routing protocols support import-route? (Select 3 answers)

- A. OSPF
- B. RIP
- C. BGP
- D. Static

Correct Answer: ABC

QUESTION 14

Which of the following parameters are optional when configuring a BGP peer? (Select 2 answers)

- A. IP address
- B. Description
- C. Password
- D. AS-number

Correct Answer: BC



QUESTION 15

Generally, the performance of an IP-prefix-filter is greater than that of an ACL.

A. TRUE

B. FALSE

Correct Answer: A

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