

Exam Questions H12-221

HCNP-R&S-IERN (Huawei Certified Network Professional-Implementing Enterprise Routing Network)

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NEW QUESTION 1

Which of the following elements together uniquely identify a LSA? (Select 3 answers)

- A. LS type
- B. Link state ID
- C. Advertising Router
- D. LS Sequence number

Answer: ABC

NEW QUESTION 2

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

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

Answer: ABC

NEW QUESTION 3

What is the maximum number of hosts that a network segment 192.168.2.16/28 can support?

- A. 16
- B. 8
- C. 15
- D. 14
- E. 7

Answer: D

NEW QUESTION 4

ACLs can match routing information or data packet addresses to filter unmatched routing information or data packets.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 5

Which of the following elements are used to describe a single link in OSPF routing protocol? (Select 3 answers)

- A. Link ID
- B. Data
- C. Network Mask
- D. Metric

Answer: ABD

NEW QUESTION 6

Which of the following statements are true? (Select 3 answers)

- A. The neighbor state can transition from "Down" to "Exchange".
- B. The neighbor state can transition from "Down" to "Init".
- C. The neighbor state can transition from "Init" to "Exstart".
- D. The neighbor state can transition from "Init" to "2-Way".

Answer: BCD

NEW QUESTION 7

A network administrator is required to construct a small-scale network containing only 22 hosts. The ISP has provided only a single public IP address that is to be used as the egress address. Which of the following addressing schemes can be used to plan such a network?

- A. 10.11.12.16/28
- B. 172.31.255.128/27
- C. 192.168.1.0/28
- D. 209.165.202.128/27

Answer: B

NEW QUESTION 8

Which of the following is a private AS number?

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

Answer: C

NEW QUESTION 9

If the value of hold timers in the Open messages sent by Peer A and Peer B are 180s and 90s respectively, then what is the interval at which the Keepalive messages are sent after a BGP connection is established between these two peers?

- A. 180s
- B. 90s
- C. 60s
- D. 30s

Answer: D

NEW QUESTION 10

Which statement regarding BGP is false?

- A. BGP runs over TCP.
- B. BGP is an enhanced distance-vector routing protocol.
- C. BGP uses port number 189.
- D. BGP is an inter-AS routing protocol.

Answer: C

NEW QUESTION 10

The unicast and multicast technologies are both outstanding in solving the problem of "single source, multiple destinations" in order to allow efficient P2MP data transmission.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 13

Which of the following BGP filters can be used to set route attributes?

- A. Ip-prefix
- B. Route-policy
- C. As-path-filer
- D. Community-filter

Answer: B

NEW QUESTION 15

Which of the following routers have multicast routing entries even when there is no receiver on the network? (Select 2 answers)

- A. Source's DR
- B. Receiver router
- C. Intermediate router
- D. RP

Answer: AD

NEW QUESTION 18

OSPF supports two authentication modes: area authentication and interface authentication. These two modes cannot be configured at the same time.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 23

Which of these is a valid VLSM subnet obtained by subnetting the network address 172.29.100.0/16?

- A. 172.29.100.8/28
- B. 172.29.100.32/28
- C. 172.29.100.60/28
- D. 172.29.100.104/28

Answer: B

NEW QUESTION 27

The peer connect-interface" command is recommended to establish peer relationships between two routers connected through "multiple" links.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 31

Which of the following statements regarding an AS-external-LSA are true? (Select 3 answers)

- A. The Link State ID field specifies the network segment address of an advertised destination.
- B. The Advertising Router field specifies the Router ID of an ASBR.
- C. The Net mask field specifies the network mask of an advertised destination.
- D. The Link State ID together with Advertising Router fields are used to uniquely identify an AS-external-LSA.

Answer: ABC

NEW QUESTION 32

How does community attribute of the BGP route set by routing policies affect route selection?

- A. The Community attribute directly affects route selection because it must be compared during the route selection process.
- B. The Community attribute does not affect route selection because it is non-transitive and cannot be transmitted between routers.
- C. Routes are classified by the Community attribute which indirectly affects route selection.
- D. Different route attributes such as the Local-Preference and MED values can be set for routes in different communities.

Answer: C

NEW QUESTION 33

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

Answer: AD

NEW QUESTION 36

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

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 40

Which of the following is the address range assigned by IANA for SSM service in IPv4?

- A. 232.0.0.0/24
- B. 225.0.0.0/8
- C. 232.0.0.0/8
- D. 239.0.0.0/8

Answer: D

NEW QUESTION 45

Which of the following commands is used to display check information about the IGMP enabled interface?

- A. [Quidway]show ip igmp interface
- B. [Quidway]display igmp interface
- C. [Quidway]show ip igmp
- D. [Quidway]display ip interface

Answer: B

NEW QUESTION 46

An IP-prefix-filter is used for filtering IP prefixes and data packets.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 51

The ospf dr-priority value ranges from 0 to 255 and is 64 by default.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 55

The route selection tool route-policy" can set and filter BGP attributes based on pre-defined conditions. Therefore, this tool is often used to define policies towards a BGP peer or during route generation.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 60

BGP is an exterior gateway protocol which runs between ASs. It focuses on the control of route propagation and selection of optimal routes rather than discovery and calculation of routes.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 65

What command must be configured to establish a BGP connection between indirectly connected EBGP peers?

- A. peer connect-interface
- B. peer valid-ttl-hops
- C. peer ignore
- D. peerebgp-max-hop

Answer: D

NEW QUESTION 66

Assume that the subnet mask is 255.255.255.248. Which of the following are valid host addresses? (Select 3 answers)

- A. 192.168.200.87
- B. 196.123.142.190
- C. 223.168.210.100
- D. 220.100.100.154

Answer: BCD

NEW QUESTION 67

In VRP, by default, a BGP router does not automatically send a refresh packet to its BGP peers for retransmitting an Update packet after the inbound routing policy of the BGP peers changes.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 72

When a routing protocol import routes discovered by other routing protocols, it must import only the routes that meet the conditions and set attributes for the imported routes. In such a case, a route-policy can be created.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 73

Which of the following statements regarding a multicast distribution tree are true? (Select 3 answers)

- A. Multicast distribution trees are classified into two types: SFT and RPT.
- B. The PIM-SM protocol can generate both RFTs and SPTs.
- C. The PIM-55M protocol can generate only SFTs.
- D. The PIM-DM protocol can generate both RFTs and SFTs.

Answer: ABC

NEW QUESTION 75

In OSPF protocol, Different types of networks cannot establish an adjacency with each other in the Full state.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 79

What is the network address for the IP address 190.233.27.13/16?

- A. 190.0.0.0
- B. 190.233.0.0
- C. 190.233.27.0
- D. 190.233.27.1

Answer: B

NEW QUESTION 82

A BGP finite state machine has the following states: Active

OpenConfirm Idle Established OpenSent

What is the state transition sequence to establish a successful BGP peer relationship?

- A. Idle-OpenSent-OpenConfirm-Active-Established
- B. Idle-Active-OpenSent-OpenConfirm-Established
- C. Active-Idle-OpenSent-OpenConfirm-Established
- D. Idle-Active-OpenConfirm-OpenSent-Established

Answer: B

NEW QUESTION 84

Which methods can be used to import local routes into BGP? (Select 2 answers)

- A. Run the network command,
- B. Receive routes from peers.
- C. Run the summary automatic command.
- D. Run the import command.

Answer: AD

NEW QUESTION 88

The defined route-policy set-cost configurations are: ip ip-prefix 1 permit 10.1.0.0 16

route-policy Set-cost permit node 10 if-match ip-prefix 1

apply cost 300

route-policy Set-cost permit node 20 apply cost 200

Which of the following statements is true?

- A. The route 10.1.0.0/16 matches node 10 and its cost is set to 300.
- B. The route 10.1.0.0/16 matching node 10 also matches node 20 and its final cost is set to 200.
- C. Costs of all routes will be set to 200.
- D. All routes that fail to match node 10 will be denied.

Answer: A

NEW QUESTION 89

Route importing can be used when multiple routing protocols run on different networks and these networks need to share routing information.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 92

Which of the following methods are supported by OSPF for delivering default routes? (Select 3 answers)

- A. Delivery using an ABR
- B. Delivery using a backbone router
- C. Forcible delivery
- D. Non-forcible delivery

Answer: ACD

NEW QUESTION 97

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

Answer: AC

NEW QUESTION 98

Which statements regarding prerequisites to establish a BGP peer relationship are true? (Select 2 answers)

- A. BGP peers must be manually configured.
- B. A TCP connection must be established between two neighboring routers.
- C. BGP peers must exchange routing information.
- D. MD5 authentication must be configured between BGP peers.

Answer: AB

NEW QUESTION 101

Which type of message is periodically exchanged between BGP peers to keep the BGP connection alive?

- A. Open
- B. Hello
- C. Route-refresh
- D. Keepalive

Answer: D

NEW QUESTION 105

Which of the following BGP attributes can prevent routing loops? (Select 3 answers)

- A. Originator_ID
- B. Aggregator
- C. Cluster_List
- D. AS-Path

Answer: ACD

NEW QUESTION 109

We can have different network segments in an OSPF area. We can also have same network segment in different OSPF areas.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 113

In a route-policy, which BGP attributes can be used to define apply clauses? (Select 3 answers)

- A. Local-Preference
- B. Tag
- C. Origin
- D. AS-Path

Answer: ACD

NEW QUESTION 115

Which of the following LSAs are flooded within a single area? (Select 3 answers)

- A. The Router LSAs
- B. The Network LSAs
- C. The Summary LSAs
- D. The AS external LSAs

Answer: ABC

NEW QUESTION 117

For link-state routing protocols, filtering inbound routes cannot block the transmission of link-state information. The filtering effect means that routes cannot be injected into the local routing table but neighbors can still receive complete route state information and calculate complete routes.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 122

Which of the following routes matches the ACL filter given below? "acl number 2001 rule 0 permit source 1.1.0.0 0"

- A. 1.1.1.1/32
- B. 1.1.1.0/24
- C. 1.1.0.0/16
- D. 1.0.0.0/8

Answer: C

NEW QUESTION 127

Which of following BGP attributes is used to define a set of prefixes with same properties?

- A. Origin
- B. Nexthop
- C. Community
- D. MED

Answer: C

NEW QUESTION 131

OSPF uses SPF algorithm to compute the SPF tree based on the topology. What is the node of the 5PF tree?

- A. Router
- B. Router and network segment
- C. Port and network segment
- D. Router and port

Answer: B

NEW QUESTION 136

Which of the following messages needs to be sent out by a downstream interface when recovering from the pruned state to the forwarding state in PIM DM?

- A. Join
- B. Assert
- C. Prune
- D. Graft

Answer: D

NEW QUESTION 141

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