



HUAWEI

Exam Questions H12-221

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

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 statements about OSPF packets are true? (Select 3 answers)

- A. Hello packets can be sent after OSPF is enabled on an interface.
- B. LS Request packets are sent only after an adjacency is established.
- C. LS Update packets contain detailed LSA information for LSDB synchronization.
- D. LS Update packets are sent only after an adjacency is established.

Answer: ABC

NEW QUESTION 3

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

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

Answer: ABC

NEW QUESTION 4

Which of the following statements regarding multicast MAC addresses are true (Select 3 answers)

- A. The high-order 24 bits of a multicast MAC address are 0x01005e while the low-order 23 bits of a multicast MAC address are the low-order 23 bits of a multicast IP address.
- B. One multicast MAC address can map 32 different IP multicast addresses.
- C. Multicast MAC addresses are used in the link layer to identify receivers that are in the same multicast group.
- D. One multicast MAC address can map only one IP multicast address.

Answer: ABC

NEW QUESTION 5

How many multicast IP addresses can be represented by an IP multicast MAC address?

- A. 1
- B. 23
- C. 32
- D. 24

Answer: C

NEW QUESTION 6

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 7

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 8

Which of the following BGP attributes are well known mandatory attributes? (Select 3 answers)

- A. ORIGIN

- B. AS_PATH
- C. NEXT_HOP
- D. MED
- E. LOCAL_PREF
- F. COMMUNITY

Answer: ABC

NEW QUESTION 9

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 10

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

- A. LOCAL_PREF
- B. AS_PATH
- C. COMMUNITY
- D. ORIGIN

Answer: A

NEW QUESTION 10

The NBMA mode doesn't function if all the routers in the network are not fully connected.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 15

ABRs advertise link state information about non-backbone areas into backbone areas. The backbone area then advertises the routing information into other non-backbone areas. Link state information about the backbone area cannot be advertised into non-backbone areas.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 17

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 20

Routes 172.1.12.0/24, 172.1.13.0/24, 172.1.14.0/24, and 172.1.15.0/24 can be summarized into route 172.1.8.0/21.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 25

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 26

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 29

According to BGP route selection rules, a local route that is automatically summarized takes precedence over a local route that is manually summarized.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 30

A company reserves the network segment 172.29.100.0/26 for some remote small-scale sites. Each site has 5 IP devices to connect to this network segment. Which of these Variable Length Subnet Masks (VLSMs) can be used to accommodate the need for minimum number of hosts?

- A. /27
- B. /28
- C. /29
- D. /30

Answer: C

NEW QUESTION 34

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

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

Answer: B

NEW QUESTION 38

ACL rules are matched based on the configured order only.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 39

Type 2-external route should always take precedence over a Type 1-external route.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 41

Which statements regarding the local preference attribute are true? (Select 2 answers)

- A. Based on BGP route selection rules, the local preference has a lower priority than the preferred-value which means BGP compares local preference of routes after comparing preferred-values.
- B. The local preference of a BGP route is 0 by default.
- C. The local preference selects an exit point for data from the local AS
- D. Based on BGP route selection rules, the local preference has a lower priority than the MED attribute which means that BGP compares local preference of routes after comparing MED.

Answer: AC

NEW QUESTION 44

A failure in establishing a BGP connection can be addressed by checking the TCP connectivity and BGP peer configurations.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 46

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 48

The most remarkable characteristic of OSPF is that it can support the link-state algorithm.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 49

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

Answer: BC

NEW QUESTION 54

Which of the following route selection tools is used in multiple routing protocols, can be configured with match conditions, and consists of if-match and apply clauses?

- A. AS-path-filter
- B. IP-prefix
- C. Route-policy
- D. Community-filter

Answer: C

NEW QUESTION 55

A router can be configured to run only one BGP routing process.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 57

What does the IP-prefix-filter "ip ip-prefix test index 10 deny 0.0.0.0 0 less-equal 32" mean?

- A. Matching only default routes
- B. Matching all routes
- C. Denying only default routes
- D. Denying all routes

Answer: D

NEW QUESTION 59

Which command triggers the advertisement of BGP routes without interrupting a BGP connection?

- A. Reset bgp
- B. Refresh bgp all external
- C. Refresh bgp all internal
- D. RR-filter

Answer: B

NEW QUESTION 64

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 69

The bandwidth-reference parameter is measured in Mbit/s.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 74

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

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 77

BGP peers are automatically discovered by exchanging multicast packets.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 79

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 83

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 84

Based on BGP route selection rules, the route with the lowest local preference is preferred.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 85

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 89

Policy-based routing and routing policies implements the forwarding of data packets in different ways: A routing policy mainly controls packet forwarding. According to the routing policy, packets can be forwarded without a routing table; Policy-based routing mainly controls the importing, advertising, and receiving of routing information.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 94

Which of the followings are OSPF packet types? (Select 3 answers)

- A. LSA
- B. LS Request
- C. LSP
- D. LS Update
- E. LSAck

Answer: BDE

NEW QUESTION 96

<Quidway>dis igmp group verbose IGMP interface group report information Ethernet6/1/0(10.1.1.1):

Total 1 IGMP Group reported Group: 225.0.0.1

Uptime: 00:09:03

Expires: 00:02:09

Last reporter: 10.1.1.30

Last-member-query-counter: 0

Last-member-query -timer-expiry: off Group mode: exclude

Version1-host-present-timer-expiry: off Version2-host-present-timer-expiry: 00:02:09

The preceding information is generated after a router receives a Report message from group 225.0.0.1 through Ethernet 6/1/0. Which type of Report message will not be processed by the router?

- A. IS_IN
- B. ALLOW
- C. BLOCK

Answer: C

NEW QUESTION 100

Which of these addresses are reserved for use by multicast applications?

- A. Class A
- B. Class B
- C. Class E
- D. Class D

Answer: D

NEW QUESTION 101

Based on BGP route selection rules, the route with the lowest multi-exit discriminator (MED) is preferred.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 103

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.

Answer: AB

NEW QUESTION 107

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 109

How many Class C networks does the summarized route 192.168.134.0/22 cover?

- A. 2
- B. 4
- C. 8
- D. 16

Answer: B

NEW QUESTION 112

Assume that the following commands are run to configure BGP

```
timer keepalive 30 hold 90
```

```
peer 1.1.1.2 timer keepalive 10 hold 30
```

Which statements regarding the configuration are true?(Select 2 answers)

- A. A global configuration is preferred
- B. Therefore, the timer values for peer 1.1.1.2 are "keepalive 30 hold 90."
- C. A peer configuration is preferred
- D. Therefore, the timer values for peer 1.1.1.2 are "keepalive 10 hold 30."
- E. The smaller value between the global and peer timer values is chosen
- F. Therefore, the timer values for peer 1.1.1.2 are "keepalive 10 hold 30".
- G. The default configuration is "timer keepalive 60 hold 180." Therefore, peer 1.1.1.2 can detect connection faults faster than the default configuration.

Answer: BD

NEW QUESTION 113

If the subnet mask for Class A address is 255.255.240.0, how many bits are used for subnetting?

- A. 4
- B. 5
- C. 9
- D. 12

Answer: D

NEW QUESTION 114

Which of the following is used to avoid routing loops in BGP?

- A. Use ORIGIN attribute to record the origin of the route.
- B. Use AS_PATH attribute to record all AS areas that a route passes.
- C. Use NEXT_HOP attribute to record next hop path
- D. Use MED attribute to influence export selection of other ASs

Answer: B

NEW QUESTION 115

How does an IGMP router maintain group memberships on a network? (Select 2 answers)

- A. The router maintains a timer for each group membership which it refreshes for hosts that send report messages and deletes the group membership of hosts that do not.
- B. The router periodically sends Query message
- C. After a receiver host receives the Query message, the receiver host sends a Report message.
- D. A receiver host periodically sends a Report message.
- E. The router deletes a group membership only when it receives a Leave message for this group.

Answer: AB

NEW QUESTION 118

Which types of packets are supported by BGP? (Select 3 answers)

- A. Hello
- B. Notification
- C. Update
- D. Route-refresh

Answer: BCD

NEW QUESTION 121

Which parameters are carried in a BGPOpen message? (Select 3 answers)

- A. Local AS number
- B. BGPID
- C. Keepalive timer
- D. Hold timer
- E. Current peer status

Answer: ABD

NEW QUESTION 122

What is the link-state ID of an ASBR-Summary-LSA?

- A. The OSPF Router ID of an LSA's originator
- B. The Interface IP address of the DR on the described network segment
- C. The address of the described network segment
- D. The Router ID of the described ASBR

Answer: D

NEW QUESTION 127

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

- A. Different group addresses on a PIM-SM network corresponds to different RPs.
- B. An RP is the root of an RFT
- C. An RP is elected out of BSRs.
- D. All routers on a PIM-SM network must automatically discover the location of RPs.

Answer: ABD

NEW QUESTION 129

Which of the following route entries match the IP-Prefix defined below?

ip ip-prefix test index 10 permit 192.168.0.0 16 greater-equal 24 less-equal 28
(Select 2 answers)

- A. 192.168.1.0/24
- B. 192.10.2.0/24
- C. 192.168.3.0/25
- D. 192.168.4.0/30

Answer: AC

NEW QUESTION 134

Which of the following statements are correct regarding OSPF Network LSAs? (Select 2 answers)

- A. Network LSAs are generated by ABR.
- B. Only the router which is connected to NBMA or Broadcast Network may generate Network LSAs.
- C. DR uses Network LSAs to describe routers that have established adjacency with it in the network,
- D. Network LSAs are flooded in the entire AS.

Answer: BC

NEW QUESTION 136

What are the differences between the IGMP versions 1, 2 & 3? (Select 2 answers)

- A. IGMPv1/v2 cannot elect devices which may send queries but IGMPv3 can.
- B. IGMPv2/v3 members can actively leave groups, whereas in IGMPv1 members cannot
- C. IGMPv1/v2 do not support the SSM service model but IGMPv3 does.
- D. IGMPv1/v2 do not support group-specific queries but IGMPv3 does.

Answer: BC

NEW QUESTION 138

The vlink-peer command is used to specify a peer IP address for setting up a virtual link.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 141

Which of the following routers can initiate SFT switchover on a PIM-SM network? (Select 2 answers)

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

Answer: AC

NEW QUESTION 146

When running in non-broadcast networks, OSPF uses one of the two modes: NBMA or P2MP.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 150

If there are two BGP routes with the same destination address but different next hops in a BGP routing table, then which statement regarding the two BGP routes is true?

- A. Both BGP routes are advertised to other BGP peers.
- B. Only the optimal route between the two is advertised to other BGP peers.

Answer: B

NEW QUESTION 152

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 155

All routing protocols can deliver default routes, supporting both forcible delivery and non-forcible delivery.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 157

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 158

We can prevent a router from ever becoming a DR or BDR by configuring an OSPF Priority of zero,

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 159

What is the mask value for the network 175.25.128.0/19?

- A. 255.255.0.0
- B. 255.255.224.0
- C. 255.255.24.0
- D. Different based on the address type

Answer: B

NEW QUESTION 163

What is the default LOCAL_PREF and PREFERRED-VALUE assigned to routes in a VRP system?

- A. 0,32768
- B. 100,0
- C. 255,100
- D. 32768,0

Answer: B

NEW QUESTION 168

An OSPF neighbor relationship fails to establish and the OSPF error information is displayed as follows. Which of the following is most likely the cause?

```
[RTB]display ospf error
      OSPF Process 1 with Router ID 2.2.2.2
      OSPF error statistics:
General packet errors:
0   : IP: received my own packet    0   : Bad packet
0   : Bad version                   0   : Bad checksum
0   : Bad area id                   0   : Drop on unnumbered interface
0   : Bad virtual link              0   : Bad authentication type
0   : Bad authentication key        0   : Packet too small
0   : Packet size > ip length       0   : Transmit error
0   : Interface down                0   : Unknown neighbor
HELLO packet errors:
0   : Netmask mismatch              0   : Hello timer mismatch
0   : Dead timer mismatch           0   : Extern option mismatch
9   : Router id confusion           0   : Virtual neighbor unknown
0   : NBMA neighbor unknown
DD packet errors:
0   : Neighbor state low             0   : Router id confusion
0   : Extern option mismatch         0   : Unknown LSA type
0   : MTU option mismatch
LS ACK packet errors:
0   : Neighbor state low             0   : Bad ack
0   : Duplicate ack                 0   : Unknown LSA type
LS REQ packet errors:
0   : Neighbor state low             0   : Empty request
0   : Bad request
LS UPD packet errors:
0   : Neighbor state low             0   : Newer self-generate LSA
0   : LSA checksum bad              0   : Received less recent LSA
0   : Unknown LSA type
Opaque errors:
0   : 9-out of flooding scope       0   : 10-out of flooding scope
0   : 11-out of flooding scope
Retransmission for packet over Limitation errors:
0   : Number for DD Packet           0   : Number for Update Packet
0   : Number for Request Packet
Receive Grace LSA errors:
0   : Number of invalid LSAs         0   : Number of policy failed LSAs
0   : Number of wrong period LSAs
Configuration errors:
0   : Tunnel cost mistake
0   : The network type of the neighboring interface is not consistent.
```

- A. Router IDs conflict.
- B. Area IDs are mismatched.
- C. Network masks are inconsistent.
- D. Authentication types are inconsistent.

Answer: A

NEW QUESTION 169

Which of the following situations will occur when the command "multicast load balancing" is configured? (Select 3 answers)

- A. If there exists no unicast equal-cost routes, multicast load balancing fails.
- B. If group address-based load splitting is employed, balanced distribution of entries over equal-cost routes cannot be ensured due to hash function limitations.
- C. Balanced distribution of entries over equal-cost routes can be ensured as long as multicast load balancing is performed.
- D. During multicast load splitting, traffic may not be balanced among equal-cost routes because multicast load balancing is based on multicast entries not multicast data packets.

Answer: ABD

NEW QUESTION 174

Which of the following statements are correct regarding how OSPF detects old or duplicate LSAs? (Select 3 answers)

- A. The lower the sequence number, the more recent the LSA.
- B. The smaller the LS age, the more recent the LSA.
- C. A router uses 0x80000001 as the sequence number when it generates the first LSA.
- D. An LSA can be flushed from the routing domain by setting its LS age to equal the MaxAge.

Answer: BCD

NEW QUESTION 178

Which of the following statements are true if a BGP peer is configured with "multiple" route selection tools for route filtering? (Select 2 answers)

- A. The routes received from the BGP peer are first matched with IP-prefix and then with route-policy.
- B. The routes received from the BGP peer are first matched with route-policy and then with IP-prefix.
- C. The routes sent to the BGP peer are first matched with IP-prefix and then with route-policy.
- D. The routes sent to the BGP peer are first matched with route-policy and then with IP-prefix.

Answer: AC

NEW QUESTION 180

What is the maximum number of bits that can be used for creating subnets, when the network address is a Class B address?

- A. 8
- B. 14
- C. 16
- D. 22

Answer: B

NEW QUESTION 181

Which statements regarding BGP route advertisement are true? (Select 2 answers)

- A. All BGP routes learned from BGP peers are advertised to other BGP peers,
- B. Only the routes learned from an IGP are advertised to other BGP peers.
- C. By default, the routes learned from IBGP peers are not advertised to other IBGP peers,
- D. Only the optimal routes are advertised to other BGP peers.

Answer: CD

NEW QUESTION 183

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 188

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 189

OSPF directly runs over the IP protocol as protocol number 89.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 190

Which session is established between BGP peers?

- A. Telnet
- B. Send Hello packet
- C. UDP
- D. TCP

Answer: D

NEW QUESTION 194

Which type of BGP route can be added to the BGP routing table?

- A. All BGP routes learned from peers
- B. Only the routes learned from IBGP peers
- C. Only the routes learned from EBGP peers
- D. Only optimal routes

Answer: A

NEW QUESTION 199

Which of the following network link type is not the basic network link type defined in OSPF?

- A. P2P
- B. P2MP
- C. Broadcast
- D. Virtual link

Answer: D

NEW QUESTION 202

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 203

What is the function of well-known community attribute NO_EXPORT_SUBCONFED in BGP?

- A. Routes received carrying this value cannot be advertised outside of the confederation.
- B. Routes received carrying this value cannot be advertised to any BGP peers.
- C. Routes received carrying this value cannot be advertised to any EBGP peers.
- D. All above statements are wrong

Answer: C

NEW QUESTION 205

If the default-route-advertise command is used to advertise a default BGP route to peers, how will this operation affect the local BGP routing table?

- A. An inactive default route will be generated in the local BGP routing table which will not be delivered to the IP routing table.
- B. An active default route will be generated in the local BGP routing table which will be delivered to the IP routing table.
- C. The local BGP routing table will not be affected and no default route will be generated.
- D. A default route will be generated in the local BGP routing tabl
- E. Whether this route is delivered to the IP routing table depends on route selection results.

Answer: C

NEW QUESTION 206

Which of these statements is true when configuring MD5 authentication between BGP peers?

- A. All routers in the same AS must use the same MD5 password.
- B. A pair of BGP peers must use the same MD5 password.
- C. All BGP peers must use the same MD5 password.
- D. Every BGP peer of a router must use a unique MD5 password.

Answer: B

NEW QUESTION 210

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 215

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 219

Only Router-LSAs and Network-LSAs are involved in intra-area route calculations.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 222

The ABR of an NSSA does not advertise Type-4 and Type-5 LSAs to an NSSA instead it imports external routes into the NSSA,

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 224

Which of the following route prefixes match the IP-prefix-filter given below?

"ip ip-prefix test index 10 permit 10.0.0.0 16 greater-equal 24 less-equal 28" (Select 3 answers)

- A. 10.0.1.0/23
- B. 10.0.1.0/24
- C. 10.0.1.0/25
- D. 10.0.1.0/28

Answer: BCD

NEW QUESTION 226

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

Answer: B

NEW QUESTION 227

What is the maximum number of bits that can be used for subnetting, when the network address is a Class C address?

- A. 6
- B. 8
- C. 12
- D. 14

Answer: A

NEW QUESTION 231

The Origin attribute of the BGP routes injected with the network command are considered IGP.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 236

Which of the following BGP attributes is an optional transitive attribute?

- A. ORIGIN
- B. AS_PATH
- C. NEXT_HOP
- D. MED
- E. LOCAL_PREF
- F. COMMUNITY

Answer: F

NEW QUESTION 241

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 243

A router receives a packet whose destination address is 195.26.17.4. Which of these subnets does this address belong to?

- A. 195.26.0.0/21
- B. 195.26.16.0/20
- C. 195.26.8.0/22
- D. 195.26.20.0/22

Answer: B

NEW QUESTION 245

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

- A. ASBR-Summary-LSAs describe the route to an ASBR and are flooded within an AS.
- B. ASE-LSAs describe the route to an external AS and are flooded to an external AS.
- C. AS-external-LSAs do not belong to any particular OSPF area,
- D. The Type-1 external metrics include only the AS external metric.

Answer: ABD

NEW QUESTION 248

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 251

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

- A. Based on BGP route selection rules, the MED has precedence over the AS_Path, Preferred-Value, Local-Preference, and Origin attributes.
- B. The MED of a BGP route is 100 by default.
- C. Generally, BGP compares only the MEDs of routes received from the same AS but if the "compare-different-as-med" command is configured, BGP can compare the MEDs of the routes received from multiple ASs.
- D. the default MED value 0 on a BGP indicates that the route is not specific
- E. If the bestroute med-none-as-maximum command is configured, the maximum MED value that can be set is 4294967295.

Answer: ACD

NEW QUESTION 256

A Router ID is optional in the OSPF configuration.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 260

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 263

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 268

Default routes between routers are a low-cost solution because they are easy to configure and require less system resources when compared with maintaining a complete routing table.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 269

Which of the following statements belong to BGP community attribute? (Select 3 answers)

- A. NO_EXPORT
- B. NO_ADVERTISE
- C. LOCAL_EXPORT_SUBCONFED
- D. NO_BROADCAST

Answer: ABC

NEW QUESTION 270

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

- A. Origin
- B. Next hop
- C. Community
- D. MED

Answer: C

NEW QUESTION 271

In the process of calculating SPF tree, the cost from a given node to its root node is equal to the metric listed in the Router LSA generated by the node.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 272

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

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

Answer: B

NEW QUESTION 275

Which of the following IP addresses are network addresses? (Select 2 answers)

- A. 64.104.3.7/28
- B. 192.168.12.64/26
- C. 192.135.12.191/26
- D. 198.18.12.16/28

Answer: BD

NEW QUESTION 278

Unlike Stub area, an NSSA supports Type-5 LSAs.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 282

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.

Answer: AC

NEW QUESTION 287

On a broadcast network or an NBMA network, not all neighbors need to set up adjacencies with each other. Therefore, the concept of establishing adjacency is applicable only to the broadcast network or the NBMA network.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 291

Which of the following subnet masks can be used to divide a Class C network into 5 subnets, with each subnet containing a maximum of 20 hosts?

- A. 255.255.255.192
- B. 255.255.255.240
- C. 255.255.255.224
- D. 255.255.255.248

Answer: C

NEW QUESTION 295

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.

Answer: BCD

NEW QUESTION 300

Which of the following are multicast routing protocols? (Select 3 answers)

- A. DVMRP
- B. PIM-DM
- C. OSPF
- D. PIM-SM

Answer: ABD

NEW QUESTION 302

What does an IP address of 0.0.0.0 indicate?

- A. Network address
- B. Broadcast address of specially designated network segment
- C. All networks
- D. Broadcast address of all nodes of local network segment

Answer: C

NEW QUESTION 306

Which of the following IP addresses can be used on a public network? (Select 2 answers)

- A. 172.30.0.1/16
- B. 127.254.11.15/16
- C. 172.15.12.7/16
- D. 193.168.10.4/16

Answer: CD

NEW QUESTION 307

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 311

How does a BGP router process a received route whose next hop is unreachable?

- A. The BGP router sends an error message to the router that has sent the update message.
- B. The BGP router accepts the route and adds it to the BGP routing tabl

- C. This route, however, is neither preferred nor added to the IP routing table for packet forwarding.
- D. The BGP router refuses the route.
- E. The BGP router accepts the route and adds it to the BGP routing tabl
- F. This route participates in route selection and may be selected as the optimal route to be added to the IP routing table for packet forwarding.

Answer: B

NEW QUESTION 316

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