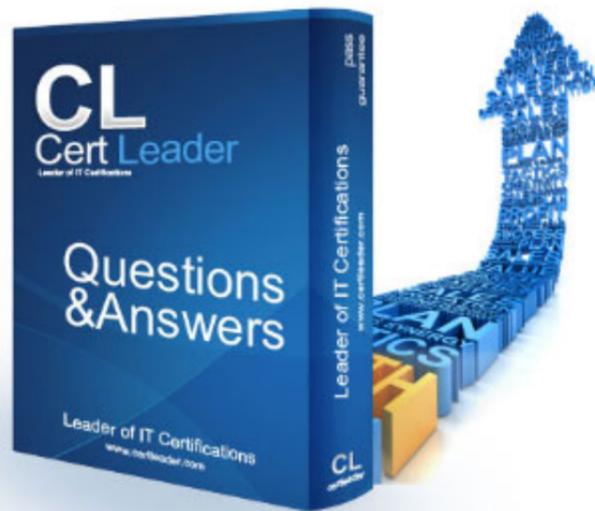


H12-221 Dumps

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

<https://www.certleader.com/H12-221-dumps.html>



NEW QUESTION 1

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 2

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 3

Which of the following are OSPF message types? (Select 4 answers)

- A. Hello
- B. Database Description
- C. Link-State Request
- D. Link-State Update
- E. Link-State Advertisement

Answer: ABCD

NEW QUESTION 4

Which of the following connection types can a Router LSA describe? (Select 3 answers)

- A. Point-to-point
- B. Star
- C. Transit
- D. Virtual link

Answer: ACD

NEW QUESTION 5

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 6

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 7

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 8

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 9

Which of the following statements are correct regarding OSPF intra-area route calculation?(Select 2 answers)

- A. Each OSPF router uses only one Router LSA to describe the local active link state for an area.
- B. Each OSPF router uses more than one Router LSA to describe local active link state for an area.
- C. One Router LSA describes only one link,
- D. One Router LSA describes more than one link.

Answer: AD

NEW QUESTION 10

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 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 11

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 14

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 19

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 24

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 25

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 26

A OSPF network may be structured, or subdivided into routing areas. Such routing areas are a set of network segments.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 29

Whenever changes occur in the BGP routing table, a BGP Speaker advertises all the optimal routes in the BGP routing table to its peers.

- 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 33

Which of the following statements about a neighbor state machine is true?

- A. The Attempt state appears only on an NBMA network or a broadcast network.
- B. The Attempt state appears only on an NBMA network or a P2MP network.
- C. LSR packets can be sent in the Exchange state.
- D. The Full state indicates that LSDB synchronization is complete.
- E. No LSDB information will be exchanged.

Answer: C

NEW QUESTION 36

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 37

ACL rules are matched based on the configured order only.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 38

Route filtering can filter not only routing information but also link-state information.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 41

Why is BGP run by core routers in transit AS?

- A. To eliminate route loops
- B. To ensure the transmission of data packets to the external destination addresses
- C. To optimize network within an AS
- D. To ensure only one export

Answer: B

NEW QUESTION 46

To which attribute type does the BGP AS-Path attribute belong?

- A. Well-known Mandatory
- B. Well-known Discretionary
- C. Optional Transitive
- D. Optional Non-transitive

Answer: A

NEW QUESTION 51

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

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 54

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 58

By default, the cost of an OSPF interface is calculated based on the bandwidth. The formula to calculate the cost is reference bandwidth/interface bandwidth.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 60

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

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 62

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

Answer: D

NEW QUESTION 64

The Internet Group Management Protocol (IGMP) runs between hosts and their immediately neighboring multicast routers.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 65

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 68

An IP address 192.168.13.175 with the subnet mask 255.255.255.240 can be assigned to a device.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 69

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 72

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 73

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 74

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

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 75

Which of the following conditions must be met for importing routes into BGP using the network command? (Select 2 answers)

- A. The routes must be optimal in the IP routing table.
- B. The routes do not need to match the specified mask length.
- C. The routes must match the specified mask length.
- D. The routes must be IGP routes.

Answer: AC

NEW QUESTION 79

BGP peers are automatically discovered by exchanging multicast packets.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 83

The ABR in a Totally Stubby area will not advertise Type-3, Type-4, and Type-5 LSAs into the Totally Stubby area. Instead, the ABR will advertise a default route to the Totally Stubby area enabling packet forwarding to other destinations.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 88

Which of the following are well-known communities attributes? (Select 3 answers)

- A. NO_EXPORT (0xFFFFFF0)
- B. NO_ADVERTISE (0xFFFFFF02)
- C. NO_EXPORT_SUBCONFED
- D. AS (2Byte): Number (2Byte)

Answer: ABC

NEW QUESTION 89

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 94

Which of the following statements regarding stub areas is false?

- A. An AS-external-LSA cannot be advertised into a stub area.
- B. The ABR in the stub area generates a default route to enable packet forwarding destined for other areas.
- C. Transit area cannot be a stub area.
- D. Any area can be configured as a Stub area.

Answer: D

NEW QUESTION 95

Which of the following statements is false?

- A. The Type-1 external metric is the sum of the external metric and the internal cost to reach an ASBR.
- B. The Type-2 external metric uses only the AS external metric.
- C. The metric of an external route is the sum of the AS external metric and the AS internal metric.
- D. The effects of setting Forwarding Address to a non-zero value is that the next hop of the external route imported into OSPF is within the OSPF routing area.

Answer: C

NEW QUESTION 99

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 101

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 105

Which of the following tools cannot be used for route filtering?

- A. Filter-policy
- B. IP-prefix
- C. Route-policy
- D. Policy-based-route

Answer: D

NEW QUESTION 106

<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 107

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 112

Which of the statements describes how BGP updates routes?

- A. Broadcasts all routes periodically
- B. Update all routes periodically using multicast addresses
- C. Updates only changed and new routes
- D. Updates routes on BGP peer requests

Answer: C

NEW QUESTION 116

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 119

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 123

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.

Answer: ACD

NEW QUESTION 128

Which of the following messages exist only in PIM-SM? (Select 2 answers)

- A. Join/Prune
- B. Assert
- C. Bootstrap

D. Register

Answer: CD

NEW QUESTION 133

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 135

Which of the following route entries matches ACL 2001 that is defined below? 1.0.0.0/8 , 1.2.0.0/16, 1.2.3.0/24, 1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24, 1.2.7.0/24, 1.2.8.0/24 ACL 2001:

Basic ACL 2001, 1 rule Ad's step is 5
rule 0 permit source 1.2.1.0 0.0.254.255

- A. 1.2.3.0/24, 1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24, 1.2.7.0/24, 1.2.8.0/24
- B. 1.0.0.0/8, 1.2.0.0/16, 1.2.3.0/24, 1.2.4.0/24, 1.2.5.0/24, 1.2.6.0/24, 1.2.7.0/24, 1.2.8.0/24
- C. 1.2.3.0/24, 1.2.5.0/24, 1.2.7.0/24
- D. 1.2.0.0/16, 1.2.4.0/24, 1.2.6.0/24, 1.2.8.0/24

Answer: C

NEW QUESTION 140

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 145

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 148

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 152

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

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

Answer: ABD

NEW QUESTION 156

Which of the following statements is false?

- A. An ABR maintains a separate LSDB for each area it is attached to
- B. ABRs have multiple LSDBs.
- C. Metric, an ASE LSA parameter, can be specified when an external route is imported with 1 as its default value.
- D. The externally-derived routing information carries a tag for transmitting additional information of the route which is commonly used in a routing policy
- E. The default value of the Tag label is 0.
- F. The Link State ID is the Router ID of the ASBR for type 4 LSAs.

Answer: C

NEW QUESTION 159

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 161

Which of the following is not supported by policy-based routing for specifying the data forwarding path?

- A. Source address
- B. Port number
- C. Destination address
- D. Packet length

Answer: B

NEW QUESTION 166

In VRRP, 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 170

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 RPT
- 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 171

Which of the following statements regarding comparison between ACL and IP-Prefix are true? (Select 2 answers)

- A. Both ACL and IP-Prefix can perform route filtering
- B. Both ACL and IP-Prefix can perform data packet filtering
- C. ACL can perform data packet filtering and route filtering, but IP-Prefix can only perform route filtering
- D. IP-Prefix can perform data packet filtering and route filtering, but ACL can only perform route filtering

Answer: AC

NEW QUESTION 176

Which of the following statements regarding DR in PIM protocol are true? (Select 3 answers)

- A. In DR election, the router with the lowest IP address is elected among the routers of the same DR priority..
- B. A source's DR sends Register messages to an RP.
- C. A receiver's DR sends Join messages to a multicast source or an RP.
- D. An Assert winner on a shared network segment may not be a DR.

Answer: BCD

NEW QUESTION 180

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 185

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 189

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 190

Which is the origin attribute of the BGP routes redistributed using the import-route command?

- A. IGP
- B. EGP
- C. Incomplete
- D. Unknown

Answer: C

NEW QUESTION 195

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 199

Which of the following multicast protocols can generate multicast distribution trees?

- A. MBGP
- B. MSDP
- C. IGMP
- D. PIM

Answer: D

NEW QUESTION 203

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 208

Which of these statements is false when using the import-route command to import routes into BGP?

- A. The import-route command can import IGP routes, direct routes, and static routes into BGP.
- B. A process ID must be specified if OSPF routes or RIP routes are imported into BGP.
- C. By default, the origin attribute of imported routes is IGP.
- D. Routing policies filters the routes imported from other routing protocols.

Answer: C

NEW QUESTION 211

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 212

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 216

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 217

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 219

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 223

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 225

Based on BGP route selection rules, how are Origin attributes listed in descending order of priority?

- A. EGP > IGP > Incomplete
- B. IGP > Incomplete > EGP
- C. Incomplete > EGP > IGP
- D. IGP > EGP > Incomplete

Answer: D

NEW QUESTION 229

Which of the following protocols support the multicast ASM service model? (Select 2 answers)

- A. PIM-SM and IGMFV2
- B. PIM-SSM and IGMPv3
- C. BGPandOSPF
- D. PIM-DM and IGMPv2

Answer: AD

NEW QUESTION 231

Given a Class B network 155.16.0.0 with the mask 255.255.255.192, what is the maximum number of subnets that can be created, and what is the maximum number of hosts available within each created subnet?

- A. 512 126
- B. 1024 64
- C. 1024 62
- D. 256 254
- E. 192 254

Answer: C

NEW QUESTION 236

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 237

Which of the following statements regarding the features of VLSM are true? (Select 2 answers)

- A. VLSM supports both IPv4 and IPv6.
- B. VLSM supports overlapping address ranges.
- C. VLSM allows for summarization of routes
- D. VLSM can divide a subnet into smaller subnets.

Answer: CD

NEW QUESTION 242

How many hosts can the network 154.27.0.0 support, if not subnetted?

- A. 254
- B. 1024
- C. 65,534
- D. 16,777,206

Answer: C

NEW QUESTION 243

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 247

Which of the following elements are used by Network LSA to describe broadcast or NBMA network segments in OSPF routing protocol? (Select 3 answers)

- A. Link ID
- B. Net mask
- C. Attached Router list
- D. Metric

Answer: ABC

NEW QUESTION 249

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

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 250

Which session is established between BGP peers?

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

Answer: D

NEW QUESTION 255

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 258

The default-route originate command in the RIP protocol advertises a default RIP route to the peers. When using this command, which of the following attributes can be set for the default route?

- A. Tag
- B. Cost
- C. Interface
- D. Nexthop

Answer: B

NEW QUESTION 259

Which of the following statements is false? [RTA]display ospf peer
OSPF Process 1 with Router ID 1.1.1.1 Neighbors
Area 0.0.0.0 interface 10.1.1.1(Ethernet0/0)'s neighbor(s) RouterID: 2.2.2.2 Address: 10.1.1.2
State: Full Mode: Nbr is Master Priority: 1 DR: 10.1.1.1 BDR: 10.1.1.2
Dead timer expires in 35s Neighbor has been up for 04:35:02

- A. The OSPF Router ID of the local router is 1.1.1.1.
- B. The OSPF Router ID of the neighbor is 2.2.2.2.
- C. The OSPF Router ID of the neighbor is larger and thus the neighbor acts as a DR.
- D. The local router acts as slave.

Answer: C

NEW QUESTION 260

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 263

Which statements regarding BGP well-known mandatory attributes are true? (Select 3 answers)

- A. Well-known mandatory attributes must be recognized by all BGP routers.
- B. Well-known mandatory attributes impacts the path decision process.
- C. Well-known mandatory attributes are optional in an Update packet, and can be included in an Update packet as needed.
- D. Well-known mandatory attributes must be included in all Update packets.

Answer: ABD

NEW QUESTION 264

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 266

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

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 269

ABR of a Stub area does not flood Type-5 and Type-4 LSAs into the area. Therefore, the Stub area does not have the external AS routing capability. ABRs of the Stub area generate a default route into the area which enables packet forwarding to external destinations.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 270

Which of the following situations will occur when the command "multicast load balance" 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 272

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 277

Which of the following routes match the ACL filter given below?(Select 2 answers) "acl number 2001 rule 0 permit source 1.1.1.0 0.0.254.255"

- A. 1.1.1.1/32
- B. 1.1.2.1/32
- C. 1.1.3.1/32
- D. 1.1.4.1/32

Answer: AC

NEW QUESTION 280

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 281

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 283

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 284

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 287

Which of the following attributes must exist in the BGP update messages? (Select 3 answers)

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

Answer: BCD

NEW QUESTION 288

Which of the following BGP attributes are optional in a BGP Update packet? (Select 2 answers)

- A. Origin
- B. Nexthop
- C. Local-Preference
- D. MED

Answer: CD

NEW QUESTION 289

If both the ospf cost and reference-bandwidth are configured on an interface, the value set by the ospf cost command is used as the cost of the interface.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 293

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 297

The BGP community attribute is a well-known mandatory attribute.

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 302

Which of the following statements regarding the IP address 224.0.0.1 are correct? (Select 2 answers)

- A. It is a multicast IP address
- B. It is a private IP address
- C. It represents all the hosts and routers
- D. It represents all the routers

Answer: AC

NEW QUESTION 305

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 307

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 312

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 314

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 315

What are the functions of an IGMFV2 Query message? (Select 3 answers)

- A. A router sends IGMPv2 Query messages to collect group memberships of receiver hosts.
- B. A router sends IGMPv2 Query messages to elect a querier.
- C. A working router sends Query messages periodically.
- D. Based on IGMPv2 Query messages, receiver hosts can unicast Report messages to the querier by obtaining its address.

Answer: ABC

NEW QUESTION 316

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 321

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 324

Which port number is used by BGP to establish a TCP connection?

- A. 520
- B. 89
- C. 179
- D. 180

Answer: C

NEW QUESTION 326

InVRP, by default, a BGP router automatically retransmits an update packet to its peers after the outbound routing policy for the BGP peers changes.

- A. TRUE
- B. FALSE

Answer: A

NEW QUESTION 331

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

- A. ACL consists of basic ACL, advanced ACL and interface-based ACL
- B. ACL ranging from 2000 to 2999 belongs to advanced ACL
- C. ACL ranging from 3000 to 3999 belongs to advanced ACL
- D. Advanced ACL can be used to match either destination address or source address

Answer: ACD

NEW QUESTION 336

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 337

Which of the following statements regarding the Reverse Path Forwarding (RPF) mechanism are true?(Select 2 answers)

- A. Multicast RPF does not depend on unicast routing.
- B. All multicast protocols adopt the RPF mechanism.
- C. A router discards the received multicast packets if the RPF check fails.
- D. The RPF mechanism has two functions: It prevents multicast routing loops and the forwarding of redundant multicast packets.

Answer: CD

NEW QUESTION 341

.....

Thank You for Trying Our Product

* 100% Pass or Money Back

All our products come with a 90-day Money Back Guarantee.

* One year free update

You can enjoy free update one year. 24x7 online support.

* Trusted by Millions

We currently serve more than 30,000,000 customers.

* Shop Securely

All transactions are protected by VeriSign!

100% Pass Your H12-221 Exam with Our Prep Materials Via below:

<https://www.certleader.com/H12-221-dumps.html>