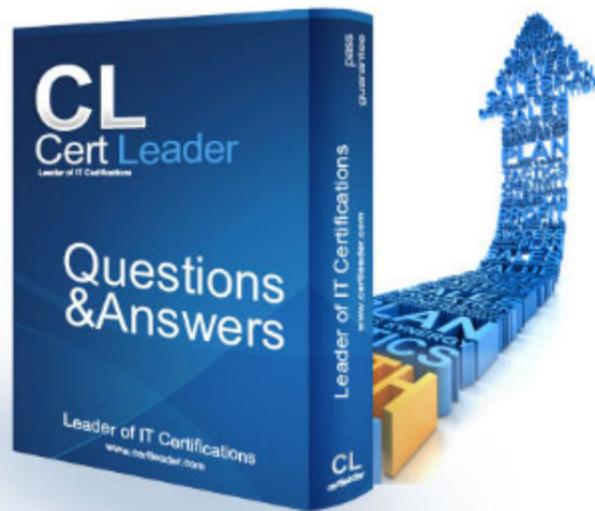


## H12-221 Dumps

# 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 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 3**

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 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**

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 8**

The import-route limit" command is used to set a maximum number of imported routes that can be imported into an OSPF routing process.

- A. TRUE

B. FALSE

**Answer:** A

**NEW QUESTION 9**

IGP routes can be installed into the BGP routing table by running either the network or import-route command.

- A. TRUE
- B. FALSE

**Answer:** A

**NEW QUESTION 10**

You are using the address space 172.28.100.0/24. If the subnet mask 172.28.100.0/30 is used to subnet this address space to serve WAN links, how many total subnets can the address space be divided into?

- A. 30
- B. 64
- C. 126
- D. 254

**Answer:** B

**NEW QUESTION 10**

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 12**

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 16**

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 21**

Which statements regarding the range of AS number are true? (Select 3 answers)

- A. If 2-byte AS values are supported, the private AS number ranges from 32768 to 65535.
- B. If 2-byte AS values are supported, the private AS number ranges from 64512 to 65535.
- C. If 2-byte AS values are supported, the AS number ranges from 1 to 65535.
- D. If 4-byte AS values are supported, then the 4-byte AS number is in the x.y form
- E. Here, "x" and "y" are integers ranging from 1 to 65535 and 0 to 65535 respectively.

**Answer:** BCD

**NEW QUESTION 22**

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**

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 31**

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 33**

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 38**

Which of the following statements regarding NSSA commands is false?

- A. The default-route-advertise command is used to generate a type-7 default route.
- B. The no-import-route parameter prevents the import of AS external routes in the form of Type-7 LSAs into an NSSA.
- C. The no-summary parameter prevents the advertisement of Type-3 and Type-4 LSAs in an area.
- D. The set-n-bit parameter indicates that an N-bit will be set in a DD packet.

**Answer: A**

**NEW QUESTION 43**

What are the functions of route filtering? (Select 3 answers)

- A. Avoids sub-optimal routes generated during route import,
- B. Avoids routing loops.
- C. Affects route selection by changing route attributes.
- D. Implements accurate route importing and controls route advertisement.

**Answer: ABD**

**NEW QUESTION 48**

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 52**

How many bits of the MAC address space is available for mapping IP multicast addresses?

- A. 24
- B. 22
- C. 25
- D. 23

**Answer: D**

**NEW QUESTION 54**

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 58**

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 61**

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 66**

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

- A. TRUE
- B. FALSE

**Answer: A**

**NEW QUESTION 67**

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

- A. TRUE
- B. FALSE

**Answer: B**

**NEW QUESTION 71**

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 76**

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 77**

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 79**

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 83**

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 86**

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 90**

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 93**

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 98**

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 99**

Which of the following conditions must be met for importing routes into BGP using the networkcommand?(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 104**

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

- A. TRUE
- B. FALSE

**Answer: A**

**NEW QUESTION 108**

BGP peers are automatically discovered by exchanging multicast packets.

- A. TRUE
- B. FALSE

**Answer: B**

**NEW QUESTION 111**

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 114**

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 117**

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 118**

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 122**

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

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

**Answer: BDE**

**NEW QUESTION 127**

<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 131**

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 133**

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 136**

An ACL is a series of orderly rules composed of permit/deny clauses. Which of the following attributes cannot be used for defining an ACL rule?

- A. Source address
- B. Destination address
- C. Port number
- D. AS-Path

**Answer:** D

**NEW QUESTION 137**

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 138**

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 142**

Which of the following describes the relationship between BGP and AS?

- A. BGP only runs between ASs, and cannot run within an AS.
- B. BGP is an EGP used by ASs to exchange routing information with other ASs.
- C. BGP builds network topologies by exchanging link-state information between ASs.
- D. BGP cannot run between ASs.

**Answer:** B

**NEW QUESTION 145**

In VRRP, by default, the routes injected into the BGP are not automatically summarized:

- A. TRUE
- B. FALSE

**Answer:** A

**NEW QUESTION 150**

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 152**

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 154**

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 156**

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 157**

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 161**

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 162**

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 165**

BGP is an inter-AS routing protocol. Which statements regarding BGP are true? (Select 3 answers)

- A. BGP adopts a reliable transmission layer protocol,
- B. BGP supports automatic peer discovery.
- C. BGP supports incremental route updates,
- D. BGP supports various routing policies.

**Answer:** ACD

**NEW QUESTION 170**

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 171**

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 174**

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

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

**Answer:** D

**NEW QUESTION 177**

A company has four departments. Department A has 50 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 180**

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 182**

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

- A. TRUE
- B. FALSE

**Answer:** B

**NEW QUESTION 185**

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 188**

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 191**

Which of the following statements is false?

- A. Each OSPF router uses only one Router-LSA to describe the status of local links in an area.
- B. Link types described by a Router-LSA include P2P, P2MP, TransNet, and StubNet.
- C. A Network-Summary-LSA describes the metric routing of an ABR to a destination network segment.
- D. Routing information can be exchanged between a backbone area and a non-backbone area but never between two non-backbone areas.

**Answer: B**

**NEW QUESTION 196**

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 200**

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 201**

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 202**

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 203**

Which of the following statements are correct regarding BGP attributes? (Select 2 answers)

- A. Till now, there are 16 BGP attributes
- B. BGP attribute can be extended to 256 types
- C. Well known discretionary attribute may not be included in each BGP update message, such as origin attribute
- D. AS\_PATH is an optional transitive attribute

**Answer:** AB

**NEW QUESTION 205**

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 206**

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 207**

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 209**

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 212**

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 213

What are the advantages of subnetting? (Select 2 answers)

- A. Isolating broadcast traffic
- B. Improving network QoS
- C. Increasing the IP address usage
- D. Improving network reliability

**Answer: AC**

#### NEW QUESTION 214

The process of determining the shortest path can be divided into two phases: determine transit node first, and then determine the stub network.

- A. TRUE
- B. FALSE

**Answer: B**

#### NEW QUESTION 219

Which session is established between BGP peers?

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

**Answer: D**

#### NEW QUESTION 224

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 227

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 232

Once a BGP connection is established, a BGP speaker advertises all the optimal routes in the BGP routing table to its peers.

- A. TRUE
- B. FALSE

**Answer: A**

#### NEW QUESTION 236

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 239**

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 241**

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 245**

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 247**

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 252**

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 254**

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

- A. TRUE
- B. FALSE

**Answer: A**

**NEW QUESTION 256**

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 261**

Which of the following situations will occur when the command "multicast bad 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 262**

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 263**

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 266**

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

- A. TRUE
- B. FALSE

**Answer:** A

**NEW QUESTION 268**

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 269**

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 273**

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 277**

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 278**

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 282**

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 286**

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 288**

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 292**

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 294**

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 298**

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 303**

Which of the following is the multicast distribution tree maintained by PIM-DM?

- A. SFT
- B. CBT
- C. RFT
- D. STP

**Answer: A**

**NEW QUESTION 306**

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 308**

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 312**

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

- A. TRUE
- B. FALSE

**Answer: B**

**NEW QUESTION 313**

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 315**

In which of the following states do BGP peers refuse to initiate or accept connection requests?

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

**Answer: D**

**NEW QUESTION 319**

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 323**

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 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 328**

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 330**

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 331**

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 336**

An Autonomous System (AS) is a set of routers under the control of one technical administration that presents a common routing policy.

- A. TRUE
- B. FALSE

**Answer: A**

**NEW QUESTION 340**

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