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 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 5
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 6
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 7
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 8

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 9
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 10
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 14
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 18
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 23
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 25
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 forma
E. Here, "x" and "y" are integers ranging from 1 to 65535 and 0 to 65535 respectively.

Answer: BCD

NEW QUESTION 26
Whichof the following is a private AS number?

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

Answer: C

NEW QUESTION 28
If the value of hold timers in the Open messages sent by Peer A and Peer B are 180s and 90s respectively, then what is the interval at which the Keepalive messages are sent after a BGP connection is established between these two peers?

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

Answer: D

NEW QUESTION 31
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 33
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 36
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 41
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 43
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 48
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 50
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 complet
E. No LSDB information will be exchanged.

Answer: C

NEW QUESTION 53
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 57
Which of the following statements regarding BGP route selection rules are true? (Select 3 answers)

A. BGP initially ignores routes with unreachable next hops,
B. A summarized route takes precedence over a non-summarized route.
C. IBGP routes take precedence over EBGP routes.
D. If all other factors are the same, the route with the shortest length cluster list is preferred.

Answer: ABD

NEW QUESTION 61
Enabling MD5 authentication between BGP peers can prevent DoS attacks that target BGP peers.

A. TRUE
B. FALSE

Answer: A

NEW QUESTION 62
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 1.2.0.0 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: D

NEW QUESTION 65
Type 2-external route should always take precedence over a Type 1-external route.

A. TRUE
B. FALSE

Answer: B

NEW QUESTION 69
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 73
Which of these is a valid VLSM subnet obtained by subnetting the network address172.29.100.0/16?

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 78
The most remarkable characteristic of OSPF is that it can support the link-state algorithm.

A. TRUE
B. FALSE

Answer: A

NEW QUESTION 80
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 85
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 88
Which of the following concepts should a network administrator know while using VLSM technology for subnetting? (Select 3 answers)

A. A subnet is composed of only summarized routes.
B. A subnet can address a host or be further subnetted.
C. The routing updates must carry subnet mask information.
D. The summarized networks must have the same high-order bit.

Answer: BCD

NEW QUESTION 89
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 selectio
D. Different route attributes such as the Local-Preference and MED values can be set for routes in different communities.

Answer: C

NEW QUESTION 90
The bandwidth-reference parameter is measured in Mbit/s.

A. TRUE
B. FALSE

Answer: A

NEW QUESTION 94
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 96
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 101
Generally, the performance of an IP-prefix-filter is greater than that of an ACL.

A. TRUE
B. FALSE

Answer: A

NEW QUESTION 102
BGP peers are automatically discovered by exchanging multicast packets.

A. TRUE
B. FALSE

Answer: B

NEW QUESTION 104
Which of the following is the address range assigned byIANA 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 109
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 111
Which of the following are well-known communities attributes? (Select 3 answers)

A. NO_EXPORT (OxFFFFFF0I)
B. N0_ADVERT1SE (0xFFFFFF02)
C. NO_EXPORT_SUBCONFED
D. AS (2Byte): Number (2Byte)

Answer: ABC

NEW QUESTION 116
Which of the following commands is used to display check information about the IGMP enabled interface?

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

Answer: B

NEW QUESTION 117
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 122
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 127
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 132
Which of the fallowings are OSPF packet types? (Select 3 answers)

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

Answer: BDE

NEW QUESTION 133
<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
Versionl-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 135
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 140
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 143
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 147
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 148
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 150
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 151
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 preferre
B. Therefore, the timer values for peer 1.1.1.2 are "keepalive 30 hold 90."
C. A peer configuration is preferre
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 chose
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
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 154
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 NEXTJHOP attribute to record next hop path
D. Use MED attribute to influence export selection of other Ass

Answer: B

NEW QUESTION 158
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 163
Which types of packets are supported by BGP? (Select 3 answers)

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

Answer: BCD

NEW QUESTION 168
Which parameters are carried in a BGPOpen message? (Select 3 answers)

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

Answer: ABD

NEW QUESTION 169
Which of the following statements is false?

A. An ABR maintains a separate LSDB for each area it is attached t
B. ABRs have multiple LSBDs.
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 polic
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 172
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 175
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 179
In VRP, by default, a BGP router does not automatically send a refresh packet to its BGP peers for retransmitting an Update packet after the inbound routing policy of the BGP peers changes.

A. TRUE
B. FALSE

Answer: B

NEW QUESTION 184
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 187
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 190
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 192
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 194
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 196
When running in non-broadcast networks, OSPF uses one of the two modes: NBMA or P2MP.

A. TRUE
B. FALSE

Answer: A

NEW QUESTION 197
A company has four departments. Department A has SO 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 202
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 207
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 210
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
All routing protocols can deliver default routes, supporting both forcible delivery and non-forcible delivery.

A. TRUE
B. FALSE

Answer: B

NEW QUESTION 213
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 214
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 216
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 217
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 221
What is the maximum number of bits that can be usedfor creating subnets, when the network address is a Class B address?

A. 8

B. 14
C. 16
D. 22

Answer: B

NEW QUESTION 222
A broadcast and an NBMA network, each having two or more routers, must have both DR and BDR.

A. TRUE
B. FALSE

Answer: B

NEW QUESTION 227
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 230
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 234
Which statement about OSPF is false?

A. The router with a higher Router Priority has a higher DR election priority.
B. When two routers have the same Router Priority, the one with a larger value for Router ID has a higher DR election priority.
C. If a DR fails, the BDR automatically takes over as the DR and a new BDR is elected.
D. If a BDR fails, the DR will not take over as the BDR and waits for the fault recovery to handle the situatio
E. No new BDR will be elected.

Answer: D

NEW QUESTION 236
Which BGP attribute is usually used to determine the path along which data flows to an AS?

A. Router ID
B. Nexthop
C. Local-Preference
D. MED

Answer: D

NEW QUESTION 239
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 240
Which of the following statements is false?

A. A Router-LSA describes the local link state information of a router.
B. A Network-LSA describes the link state information of a broadcast network or an NBMA network segment.
C. A virtual link is a virtual adjacency in the backbone area (Area 0).

D. An AS-external-LSA describes the means to reach an ASBR.

Answer: D

NEW QUESTION 242
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 246
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 249
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G. Plan subnet 192.168.1.192/27 for Department
H. The range of host addresses is 192 to 222.

Answer: AC

NEW QUESTION 253
Only Router-LSAs and Network-LSAs are involved in intra-area route calculations.

A. TRUE
B. FALSE

Answer: A

NEW QUESTION 258
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 259
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 263
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 routesbecause multicast load balancing is based on multicast entries not multicast data packets.

Answer: ABD

NEW QUESTION 268

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 269
The Origin attribute of the BGP routes injected with the network command are considered IGP.

A. TRUE
B. FALSE

Answer: A

NEW QUESTION 274
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 278
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 279
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 284
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 specifie
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 289
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 293
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 295
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 296
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 301
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 306
Which of the following protocols support default route advertisement? (Select 3 answers)

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

Answer: ABC

NEW QUESTION 308
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 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
Unlike Stub area, an NSSA supports Type-5 LSAs.

A. TRUE
B. FALSE

Answer: B

NEW QUESTION 316
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 317
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
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 320
Which port number is used by BGP to establish a TCP connection?

A. 520
B. 89
C. 179
D. I80

Answer: C

NEW QUESTION 324
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 325
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 329
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