

H12-222

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Exam A

QUESTION 1

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



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- 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

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:



QUESTION 2

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

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

Correct Answer: BDE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 4

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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

- A. TRUE
- B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

ACL rules are matched based on the configured order only.

A. TRUE

B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

answer is affirmed.

QUESTION 7

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

to the point answer.

QUESTION 8

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

A. The BGP router sends an error message to the router that has sent the update message.

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

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

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

answer is appropriate,

QUESTION 10

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)



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- 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.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

answer is rectified.



QUESTION 11

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

- A. TRUE
- B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

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

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

answer is confirmed.

QUESTION 13

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



Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

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

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

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 16

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

- A. TRUE
- B. FALSE

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

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

Correct Answer: F

Section: (none)

Explanation

Explanation/Reference:

fabulous answer.

QUESTION 18

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 19

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.

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

to the point answer.

QUESTION 20

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



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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

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

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

Correct Answer: ABC



Section: (none)

Explanation

Explanation/Reference:

accurate answer.

QUESTION 22

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

- A. TRUE
- B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

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

- A. OSPF
- B. RIP

- C. BGP
- D. Static

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

What is the default network mask length of 219.25.23.56?

- A. 8
- B. 16C. 24
- D. 32

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 26

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

Each router running OSPF has a router ID which is a 32-bit integer to uniquely identify a router. Therefore, the router IDs must be different even if the routers are in different ASs.

- A. TRUE
- B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

authenticated.

QUESTION 29

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.

Correct Answer: AC



Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

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



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- A. TRUE
- B. FALSE



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 33

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

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

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

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

okay.

QUESTION 36

A Router ID is optional in the OSPF configuration.

- A. TRUE
- B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 37

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

proper answer.

QUESTION 38

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 39

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

fabulous answer.

QUESTION 40

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



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

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 42

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

A. 24

B. 22

C. 25

D. 23

Correct Answer: D

Section: (none)

Explanation



Explanation/Reference:

valid answer.

QUESTION 43

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

A. TRUE

B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

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

- A. TRUE
- B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 46

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

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 47

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

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

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

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



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A. TRUE

B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 51

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.

Correct Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

to the point.

QUESTION 52

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.

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:



QUESTION 53

Which of the following commands is used to display the IGMP routing table?

- A. display igmp group
- B. display igmp interface
- C. display igmp routing-table
- D. display igmp

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

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

- A. TRUE
- B. FALSE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

All right.



QUESTION 56

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. 90sC. 60s
- D. 30s

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

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.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

to the point answer.

QUESTION 58

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

A. Filter-policy

B. IP-prefix

C. Route-policy

D. Policy-based-route



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 59

A BGP finite state machine has the following states:

Active

OpenConfirm

Idle

Established

OpenSent

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

okay.

QUESTION 60

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



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