QUESTION 1
Enabling MD5 authentication between BGP peers can prevent DoS attacks that target BGP peers.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
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.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
Which of the following is the address range assigned by IANA for SSM service in IPv4?

A. 232.0.0.0/24
B. 225.0.0.0/8
C. 232.0.0.0/8
D. 239.0.0.0/8

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
Which of the following are multicast routing protocols? (Select 3 answers)

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

Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
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

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
Which of the following is the multicast distribution tree maintained by PIM-DM?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
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

Correct Answer: BCD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
In OSPF protocol, Different types of networks cannot establish an adjacency with each other in the Full state.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
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

Correct Answer: ACD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
BGP peers are automatically discovered by exchanging multicast packets.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
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.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
When running in non-broadcast networks, OSPF uses one of the two modes: NBMA or P2MP.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

QUESTION 16
Which of the following is a private AS number?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
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.

Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
The router ID which is configured in the system view takes precedence over the router ID configured in the BGP view.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19
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

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
We can prevent a router from ever becoming a DR or BDR by configuring an OSPF Priority of zero,

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
What command must be configured to establish a BGP connection between indirectly connected EBGP peers?

A. peer connect-interface
B. peer valid-ttl-hops
C. peer ignore

D. peerebgp-max-hop

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
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

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
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.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
Which of the following situatbns 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.

Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
A router can be configured to run only one BGP routing process.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33

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

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
Route importing can be used when multiple routing protocols run on different networks and these networks need to share routing information.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
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

Correct Answer: ABD

QUESTION 37
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
Based on BGP route selection rules, the route with the lowest local preference is preferred.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
Which of the following subnet masks can be used to divide a Class C network into 5 subnets, with each subnet containing a maximum of 20 hosts?

A. 255.255.255.192
B. 255.255.255.240
C. 255.255.255.224

D. 255.255.255.248

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41
Which of following BGP attributes is used to define a set of prefixes with same properties?

A. Origin
B. Nexthop
C. Community
D. MED

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
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.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
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 messages. After a receiver host receives the Query message, the receiver host sends a Report message.
C. A receiver host periodically sends a Report message.
D. The router deletes a group membership only when it receives a Leave message for this group.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
Based on BGP route selection rules, the route with the lowest multi-exit discriminator (MED) is preferred.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
The ospf dr-priority value ranges from 0 to 255 and is 64 by default.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
Which methods can be used to import local routes into BGP? (Select 2 answers)

A. Run the network command,
B. Receive routes from peers.
C. Run the summary automatic command.
D. Run the import command.

Correct Answer: AD
Section: (none)
Explanation

QUESTION 48
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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
A OSPF network may be structured, or subdivided into routing areas. Such routing areas are a set of network segments.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
Which session is established between BGP peers?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
Default routes between routers are a low-cost solution because they are easy to configure and requires less system resources when compared with maintaining a complete routing table.

A. TRUE
B. FALSE

Correct Answer: A

QUESTION 52
Only Router-LSAs and Network-LSAs are involved in intra-area route calculations.

A. TRUE
B. FALSE

Correct Answer: A

QUESTION 53
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

Correct Answer: D

QUESTION 54
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

Correct Answer: B

QUESTION 55
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

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 56
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

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 57
Which of the following protocols support default route advertisement? (Select 3 answers)

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

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 58
The peer connect-interface" command is recommended to establish peer relationships between two routers connected through "multiple" links.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 59
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.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 60
The most remarkable characteristic of OSPF is that it can support the link-state algorithm.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 61
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.

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 62
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. No LSDB information will be exchanged.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 63
Which of the following methods are supported by OSPF for delivering default routes? (Select 3 answers)

A. Delivery using an ABR
B. Delivery using a backbone router
C. Forcible delivery
D. Non-forcible delivery

Correct Answer: ACD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 64
Which of the fallowings 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 65
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 66
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)

QUESTION 67
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)

QUESTION 68
ACL rules are matched based on the configured order only.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)

QUESTION 69
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)

QUESTION 70
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 71
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:

QUESTION 72
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.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 73
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 74
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:

QUESTION 75
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 76
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 77
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 78
OSPF directly runs over the IP protocol as protocol number 89.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 79
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:

QUESTION 80
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 81
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:

QUESTION 82
What is the maximum number of bits that can be used for subnetting, when the network address is a Class C address?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 83
Which of the following statements belong to BGP community attribute? (Select 3 answers)

A. NO_EXPORT
B. NO_ADVIERTISE
C. LOCAL_EXPORT_SUBCONFED
D. NO_BROADCAST

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 84
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 85
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 86
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 87
What is the default network mask length of 219.25.23.56?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 88
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 89
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 90
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:

QUESTION 91
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 92
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 93
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 94
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 95
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 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 96
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 97
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:

QUESTION 98
A Router ID is optional in the OSPF configuration.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 99
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:

QUESTION 100
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:

QUESTION 101
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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 102
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. 196.123.142.190
C. 223.168.210.100
D. 220.100.100.154

Correct Answer: BCD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 103
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:

QUESTION 104
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:

QUESTION 105
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 106
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 107
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 108
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:

QUESTION 109
Which of the following messages exiist 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 110
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 111
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 112
An IP-prefix-filter is used for filtering IP prefixes and data packets.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 113
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:

QUESTION 114
Which of the following statements regarding a multicast distribution tree are true? (Select 3 answers)