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**Vendor:** Huawei

**Exam Code:** H12-221

**Exam Name:** HCNP-R&S-IERN (Huawei Certified  
Network Professional-Implementing Enterprise Routing  
Network)

**Version:** Demo

**QUESTION 1**

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

- A. TRUE
- B. FALSE

**Correct Answer:** A

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**QUESTION 12**

BGP peers are automatically discovered by exchanging multicast packets.

- A. TRUE
- B. FALSE

**Correct Answer:** B

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

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