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1. Look at the picture.
Which Gateway will be used to reach 192.168.88.10?

- ☐ A. no one
- ☒ B. 192.168.55.3
- ☐ C. 192.168.55.2
- ☐ D. 192.168.55.1

Pict2

#	DST-ADDRESS	GATEWAY	DISTANCE
0	192.168.88.0/24	192.168.55.1	1
1	192.168.88.0/25	192.168.55.2	2
2	192.168.88.0/26	192.168.55.3	3

2. In OSPF protocol, which one of these router types are responsible for route distribution between different Autonomous systems?

- ☐ A. AS
- ☐ B. ABR
- ☐ C. IR
- ☒ D. ASBR

3. EoIP is:

- ☒ A. Layer-2 tunnel, that can be bridged
- ☒ B. MikroTik proprietary tunnel protocol
- ☒ C. Layer-3 tunnel

4. Which VPN technologies can be used to bridge two remote networks?

- ☒ A. L2TP/PPTP
- ☐ B. IPSec
- ☐ C. IPIP
- ☒ D. EoIP

5. The 'check-gateway' option is enabled for one route. Select all statements that are true:

- ☒ A. In case of failure of the gateway, routes pointing to that gateway will become inactive
- ☐ B. Gateway is checked every 10 seconds and after a single failure, the gateway is considered unreachable
- ☒ C. Gateway is checked every 10 seconds and after 2 failures, the gateway is considered unreachable
- ☐ D. Check gateway option can be configured for Ping, ARP and RARP (reverse ARP)

6. Which route will be used to reach host 192.168.1.55?

```
/ip route
add disabled=no distance=1 dst-address=192.168.1.0/24 gateway=1.1.1.1
add disabled=no distance=1 dst-address=192.168.1.0/25 gateway=2.2.2.2
add disabled=no distance=1 dst-address=192.168.0.0/16 gateway=3.3.3.3
```

- ☒ A. Route via gateway 2.2.2.2
- ☐ B. Route via gateway 1.1.1.1
- ☐ C. Route via gateway 3.3.3.3

7. There are two routes in the routing table:
0 dst-addr=10.1.1.0/24 gateway=5.5.5.5
1 dst-addr=10.1.1.4/30 gateway=5.6.6.6

Which gateway will be used to get to the IP address 10.1.1.6?

- ☐ A. 5.5.5.5
- ☐ B. both - half of the traffic will be routed through one gateway, half through the other
- ☐ C. the required route is not in the routing table
- ☒ D. 5.6.6.6

8. In OSPF network it is possible to use area-id=0.0.0.0 for non backbone area

☐ false

9. What is policy routing for and what criteria can be used to decide appropriate route?

- ☐ A. Policy routing can be used to force specific traffic to go different way through network, but only source and destination address can be used to distinguish traffic.
- ☒ B. Policy routing can be used to force specific traffic to go different way through network and beside source and destination address any traffic that can be marked in firewall can be used to distinguish traffic.
- ☐ C. Policy routing can be used to bypass routing table and is possible only if BGP is enabled.
- ☐ D. Policy routing can be used to bypass routing table and only active tunnel interfaces can be used to direct traffic alternatively.

10. To assign specific traffic to a route - traffic must be identified by a routing mark. Each packet can only have one routing mark.

☐ true

11. How many routing marks can be added to a RouterOS device?

- ☐ A. 500
- ☒ B. 251
- ☐ C. Unlimited
- ☐ D. 100

12. The target scope can be used for:

- ☐ A. To configure several routes with different costs and distances
- ☒ B. To resolve nexthops that are not directly connected to the router
- ☐ C. To build a FailOver System between two or more gateways

13. To securely bridge (Layer 2) together two remote networks the following methods can be used:

- ☒ A. EoIP over SSTP or over L2TP/IPsec
- ☒ B. EoIP with IPsec secret specified
- ☐ C. SSTP or L2TP/IPsec
- ☒ D. SSTP with BCP or L2TP/IPsec with BCP
- ☐ E. IPIP with IPsec secret specified

14. A network administrator has 2 vlans

```
/interface vlan
add name=vlan1 vlan-id=101 interface=ether1
add name=vlan2 vlan-id=102 interface=vlan1
any packet sent over "vlan2" interface
```

- ☐ A. will have one vlan tag added to ethernet header - "101"
- ☒ B. will have two vlan tags added to ethernet header - "101" and "102"
- ☐ C. will have one vlan tag added to ethernet header - "102"
- ☐ D. will not go through at all because vlan1 will drop it
- ☐ E. Wrong configuration because it is not possible to have a vlan over another vlan

15. Consider the following diagram. Assuming that all the necessary configuration has already been done on R2 (proxy-arp is disabled), to communicate from a device on LAN1 to a device on LAN2, which of the following configurations on R1 would enable this?

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- ☐ A. /ip route add dst-address=192.168.0.0/24 gateway=192.168.0.1
- ☐ B. /ip route add dst-address=192.168.1.0/24 src-address=192.168.0.0/24 gateway=192.168.99.2
- ☐ C. /ip route add dst-address=0.0.0.0/0 gateway=Ether1
- ☒ D. /ip route add dst-address=192.168.1.0/24 gateway=192.168.99.2
- ☒ E. /ip route add dst-address=0.0.0.0/0 gateway=192.168.99.2



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16. /ip route configuration on router,

```
/ip route add gateway=192.168.0.1
/ip route add dst-address=192.168.1.0/24 gateway=192.168.0.2
/ip route add dst-address=192.168.2.0/24 gateway=192.168.0.3
/ip route add dst-address=192.168.3.0/26 gateway=192.168.0.4
```

Router needs to send packets to 192.168.3.240. Which gateway will be used?

- ☐ A. 192.168.0.2
- ☐ B. 192.168.0.4
- ☒ C. 192.168.0.1
- ☐ D. 192.168.0.3

17. Which of the following can connect a remote area in OSPF to the backbone area through a non-backbone area?

- ☐ A. Area Border Router
- ☐ B. Internal Router
- ☒ C. Virtual Links
- ☐ D. Backbone Area

18. OSPF area ID does not need to be unique within the AS.

☐ false

19. To route two private networks together over a public routed network (there are multiple hops between the gateway routers of the private networks), you can use the following tunnel types (mark all that are correct):

- ☒ A. L2TP
- ☐ B. PPPOE
- ☒ C. IP/IP
- ☒ D. PPTP
- ☒ E. EOIP

20. When sending out an ARP request, an IP host is expecting what kind of address for an answer?

- ☐ A. 802.11g
- ☐ B. VLAN ID
- ☐ C. IP address
- ☒ D. MAC Address

21. When using routing option 'check-gateway=ping' what is the ICMP echo request interval (in seconds)?

- ☐ A. 20s
- ☐ B. 30s
- ☒ C. 10s
- ☐ D. 60s

22. Define a routing loop (choose the most precise description)

- ☐ A. situation where the packet is routed through the same router twice
- ☐ B. situation where the TTL of the packet expires

- ☐ C. Situation where the packet does not reach it's destination
- ☒ D. situation where the packet is routed through the same sequence of routers until the TTL expires

23. In OSPF, when we set the nbma network type, we must also configure:

- ☒ A. Neighbors
- ☐ B. Neighbors ID for each virtual link
- ☐ C. OSPF interface
- ☐ D. Area for each range

24. Which of the following are correct statements?

- ☒ A. If OSPF router ID is not set manually, then the lowest IP address configured on an active interface is used
- ☐ B. Every OSPF area must connect with area 1
- ☐ C. OSPF is not a link state protocol
- ☒ D. OSPF requires neighbor adjacencies before updates are sent
- ☐ E. OSPF allows unequal cost load balancing

25. A routing table has following entries:

0 dst-address=10.0.0.0/24 gateway=10.1.5.126

1 dst-address=10.1.5.0/24 gateway=10.1.1.1

2 dst-address=10.1.0.0/24 gateway=25.1.1.1

3 dst-address=10.1.5.0/25 gateway=10.1.1.2

Which gateway will be used for a packet with destination address 10.1.5.126?

- ☐ A. 25.1.1.1
- ☐ B. 10.1.1.1
- ☒ C. 10.1.1.2
- ☐ D. 10.1.5.126

Finish

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