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Overview   Support   Logout

[Back To Main Menu]

Certification example test

1. If ARP=reply-only is configured on an interface, what will this interface do

   ☐ Accept all MAC-addresses listed in /ip arp as static entries

   ☐ Accept all IP addresses listed in /ip arp as static entries

   ☐ Add new MAC addresses in /ip arp list

   ☐ Accept all IP/MAC combinations listed in /ip arp as static entries

   ☐ Add new IP addresses in /ip arp list

2. Select valid MAC-address

   ○ G2:60:CF:21:99:H0

   ○ 192.168.0.0/16

   ○ AEC8:21F1:AA44:54FF:1111:DDAE:0212:1201

   ○ 00:00:5E:80:EE:B0

3. Select which of the following are 'Public IP addresses':

   ☐ 172.28.73.21

   ☐ 172.168.254.2

   ☐ 10.110.50.37

   ☐ 11.63.72.21

   ☐ 192.168.0.1

4. How many usable IP addresses are there in a 20-bit subnet?

   ○ 2046

   ○ 2047

   ○ 4096

   ○ 2048

   ○ 4094

5. The basic unit of a physical network (OSI Layer 1) is the:

   ○ Byte

   ○ Bit

   ○ Frame

   ○ Header

6. How many IP addresses can one find in the header of an IP packet?

   ○ 4

   ○ 3

   ○ 1

   ○ 2

7. What protocol does ping use?

   ○ ICMP

   ○ ARP

   ○ TCP

   ○ UDP

8. Which of the following protocols / port s are used for SNMP. (Simple Network Managemnt Protocol)

   ☐ TCP 25

   ☐ UDP 161

☐ TCP 161

☐ TCP 123

☐ UDP 162

☐ TCP 162

9. Choose all valid hosts address range for subnet 15.242.55.62/27

○ 15.242.55.31-15.242.55.62

○ 15.242.55.33-15.242.55.63

○ 15.242.55.33-15.242.55.62

○ 15.242.55.32-15.242.55.63

10. What is term for the hardware coded address found on an interface?

○ FQDN Address

○ MAC Address

○ Interface Address

○ IP Address

11. Which of the following is NOT a valid MAC Address?

☐ 88:0C:00:99:5F:EF

☐ 80:GF:AA:67:13:5D

☐ 13:16:86:53:89:43

☐ EA:BA:AA:EE:FF:CB

☐ 95:B5:DD:EE:78:8A

12. If ARP=reply-only is enabled on one router interface, router can add dynamic ARP entries for the particular interface.

○ True

○ False

13. You have a router with configuration
- Public IP : 202.168.125.45/24
- Default gateway: 202.168.125.1
- DNS server: 248.115.148.136, 248.115.148.137
- Local IP: 192.168.2.1/24

Mark the correct configuration on client PC to access to the Internet

○ IP:192.168.0.1/24 gateway:192.168.2.1

○ IP:192.168.2.2/24 gateway:202.168.125.45

○ IP:192.168.1.223/24 gateway:248.115.148.136

○ IP:192.168.2.253/24 gateway:202.168.0.1

○ IP:192.168.2.115/24 gateway: 192.168.2.1

14. A PC with IP 192.168.1.2 can access internet, and static ARP has been set for that IP address on gateway. When the PC Ethernet card failed, the user change it with a new card and set the same IP for it.

What else should be done?

☐ Nothing - it will work as before

☐ MAC-address of the new card has to be changed to MAC address of old card

☐ Another IP has to be added for Internet access

☐ Old static ARP entry on gateway has to be updated for the new card

15. Which computers would be able to communicate directly (without any routers involved)

☐ 10.10.0.17/22 and 10.10.1.30/23

☐ 192.168.0.5/26 and 192.168.0.100

☐ 192.168.17.15/29 and 192.168.17.20/28

☐ 10.5.5.1/24 and 10.5.5.100/25

16. Is ARP used in the IPv6 protocol ?
    true

17. A network ready device is directly connected to a MikroTik RouterBOARD 750 with a correct U.T.P. RJ45 functioning cable. The device is configured with an IPv4 address of 192.168.100.70 using a subnet mask of 255.255.255.252. What will be a valid IPv4 address for the RouterBOARD 750 for a successful connection to the device?

☐ 192.168.100.71/255.255.255.252

☐ 192.168.100.68/255.255.255.252

☐ 192.168.100.69/255.255.255.252

☐ 192.168.100.70/255.255.255.252

18. How many layers does Open Systems Interconnection model have?

○ 12

○ 6

○ 9

○ 5

○ 7

19. MAC layer by OSI model is also known as

○ Layer 2

○ Layer 1

○ Layer 3

○ Layer 6

○ Layer 7

20. In MikroTik RouterOS, Layer-3 communication between 2 hosts can be achieved by using an address subnet of:

☐ /32

☐ /29

☐ /30

☐ /31

Finish example test

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