

Certification example test

1. Which of the following are valid IP addresses?

- ☐ A) 192.168.256.1
 - ☐ B) 1.27.14.254
 - ☐ C) 10.10.14.0
 - ☐ D) 192.168.13.255
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2. Which of the following protocols / port s are used for SNMP. (Simple Network Managemnt Protocol)

- ☐ A) UDP 161
 - ☐ B) TCP 25
 - ☐ C) TCP 161
 - ☐ D) TCP 123
 - ☐ E) TCP 162
 - ☐ F) UDP 162
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3. Collisions are possible in full-duplex Ethernet networks

false

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

- ☒ A) 80:GF:AA:67:13:5D
 - ☒ B) 95:B5:DD:EE:78:8A
 - ☒ C) EA:BA:AA:EE:FF:CB
 - ☒ D) 88:0C:00:99:5F:EF
 - ☒ E) 13:16:86:53:89:43
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5. How many usable IP addresses are there in a 20-bit subnet?

- ☒ A) 2047
 - ☒ B) 4096
 - ☒ C) 4094
 - ☒ D) 2046
 - ☒ E) 2048
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6. Which computers would be able to communicate directly (without any routers involved):

- ☐ A) 192.168.17.15/29 and 192.168.17.20/28
 - ☐ B) 10.5.5.1/24 and 10.5.5.100/25
 - ☐ C) 192.168.0.5/26 and 192.168.0.100
 - ☐ D) 10.10.0.17/22 and 10.10.1.30/23
-

7. Select valid subnet masks:

- ☐ A) 255.255.224.0
 - ☐ B) 192.0.0.0
 - ☐ C) 255.255.192.255
 - ☐ D) 255.192.0.0
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8. MAC layer by OSI model is also known as

- ☒ A) Layer 6
 - ☒ B) Layer 7
 - ☒ C) Layer 1
 - ☒ D) Layer 3
 - ☒ E) Layer 2
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9. There's an IP address 15.242.55.62 with a subnet mask 255.255.255.224 (/27). Please choose all valid host address range within the same subnet.

- ☒ A) 15.242.55.33-15.242.55.62
 - ☒ B) 15.242.55.31-15.242.55.62
 - ☒ C) 15.242.55.32-15.242.55.63
 - ☒ D) 15.242.55.33-15.242.55.63
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10. A network ready device is directly connected to a MikroTik RouterBOARD 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?

- ☒ A) 192.168.100.70/255.255.255.252
 - ☒ B) 192.168.100.69/255.255.255.252
 - ☒ C) 192.168.100.71/255.255.255.252
 - ☒ D) 192.168.100.68/255.255.255.252
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11. In MikroTik RouterOS, Layer-3 communication between 2 hosts can be achieved by using an address subnet of:

- ☐ A) /32
 - ☐ B) /30
 - ☐ C) /31
 - ☐ D) /29
-

12. Select valid MAC-address

- ☒ A) AEC8:21F1:AA44:54FF:1111:DDAE:0212:1201
 - ☒ B) 192.168.0.0/16
 - ☒ C) 00:00:5E:80:EE:B0
 - ☒ D) G2:60:CF:21:99:H0
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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

- ☒ A) IP:192.168.2.253/24 gateway:202.168.0.1
 - ☒ B) IP:192.168.1.223/24 gateway:248.115.148.136
 - ☒ C) IP:192.168.2.2/24 gateway:202.168.125.45
 - ☒ D) IP:192.168.0.1/24 gateway:192.168.2.1
 - ☒ E) IP:192.168.2.115/24 gateway: 192.168.2.1
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14. How many layers does Open Systems Interconnection model have?

- ☒ A) 9
 - ☒ B) 7
 - ☒ C) 12
 - ☒ D) 6
 - ☒ E) 5
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15. Select which of the following are 'Public IP addresses':

- ☐ A) 11.63.72.21
 - ☐ B) 10.110.50.37
 - ☐ C) 172.28.73.21
 - ☐ D) 172.168.254.2
 - ☐ E) 192.168.0.1
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16. The basic unit of a physical network (OSI Layer 1) is the:

- ☒ A) Header
 - ☒ B) Byte
 - ☒ C) Bit
 - ☒ D) Frame
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17. What protocol does ping use?

- ☒ A) ARP
 - ☒ B) ICMP
 - ☒ C) TCP
 - ☒ D) UDP
-

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

- ☒ A) 3
 - ☒ B) 4
 - ☒ C) 2
 - ☒ D) 1
-

19. The network address is

- ☒ A) The last address of the subnet
 - ☒ B) The first usable address of the subnet
 - ☒ C) None of the mentioned
 - ☒ D) The first address of the subnet
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20. What is term for the hardware coded address found on an interface?

- ☒ A) Interface Address
 - ☒ B) IP Address
 - ☒ C) FQDN Address
 - ☒ D) MAC Address
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Finish test

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