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Network Exam of Istanbul University Computer Engineering



Name-Surname:

Date: 07.05.2019

No:

Class:

1-) What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.255.224 subnet mask? (27)

- A. 14 B. 15 C. 16 D. 30 E. 32

2-) You need to subnet a network that has 5 subnets, each with at least 16 hosts. Which classful subnet mask would you use?

- A. 255.255.255.192 B. 255.255.255.224 C. 255.255.255.240 D. 255.255.255.248 E. 255.255.255.128

3-) What are the network address, broadcast address, and the subnet mask for a host with the IP Address 163.226.160.62/24

- A. Network Address: 163.226.160.0 Broadcast address: 163.226.160.255 Subnet Mask: 255.255.255.0
B. Network Address: 163.226.160.62 Broadcast address: 163.226.160.254 Subnet Mask: 255.255.255.0
C. Network Address: 163.226.160.31 Broadcast address: 163.226.160.255 Subnet Mask: 255.255.255.0
D. Network Address: 163.226.160.134 Broadcast address: 163.226.160.254 Subnet Mask: 255.255.255.0
E. Network Address: 163.226.160.62 Broadcast address: 163.226.160.255 Subnet Mask: 255.255.255.0

IP ve subnet
and lenir = Network
id

4-) Which of the following function is not related with RIP (Routing Information Protocol) ?

- A. Trigger Update B. Adjacency C. Position Reverse D. Split Horizon E. 224.0.0.9

5-) Which of the following multicast address uses the OSPF protocol?

- A. 224.0.0.5
B. 224.0.0.6
C. 224.0.0.7
D. 224.0.0.8
E. 224.0.0.9

6-) Which of the following is not the OSPF package type ?

- A. LSU Packet
B. LSack Packet
C. Hello Packet
D. LSRU Packet
E. DD Packet

7-) Which of the following steps are correct in establishing a BGP neighbor relationship?

- A. Idle - Init - Connect - Opensent - Established
B. Init - Connect - Opensent - OpenConnect - Established
C. Init - Connect - OpenSent - Aknowledge - OpenConnect
D. Idle - Connect - Opensent - OenConnect - Established
E. Idle - Connect - Opensent - Aknowledge - OpenConnect

8-) Which of the following is not match the Layer-2 Communication?

- A. Operate on layer 2 (Data link) of OSI model
B. Takes time to examine data packets before sending them to their destination → layer-3
C. Send packet to destination on the basis of MAC address
D. Can communicate within a network only
E. Used to reduce traffic on local network

9-) Which of the following is not the DHCP Message Type ?

- A. DHCP Discover
- B. DHCP Offer
- C. DHCP Request
- ☒ D. DHCP Sent
- E. ~~DHCP ACK~~

10-) Which of the following is true for Collision Domain ?

- A. L2 Switch - Passes
- B. Hub - Not Passes
- ☒ C. Router - Not Passes
- D. Repeater - Not Passes
- E. Bridge - Passes

11-) Which of the following is true for Broadcast Domain ?

- A. L2 Switch - Not Passes
- B. Hub - Not Passes
- ☒ C. Router - Not Passes
- D. Repeater - Not Passes
- E. Bridge - Not Passes

12-) IPv4 and IPv6 are respectively how many bytes ?

- A. 32 - 64
- ☒ B. 4 - 16
- C. 32 - 128
- D. 4 - 64
- E. 32 - 256

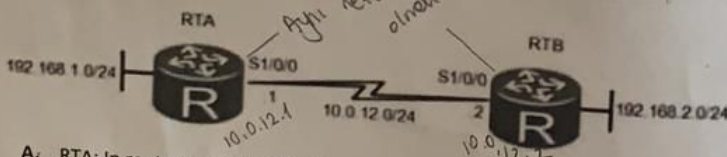
$128 \div 8 \rightarrow 1 \text{ byte}$
 $16 \div 8 \rightarrow 2 \text{ bytes}$

13-) What are the following include bridge id of STP?

- A. Bridge Priority - Path cost
- B. Mac-address - Port ID
- C. Port ID - Bridge Priority
- ☒ D. Bridge Priority - Mac address
- E. Port ID - Path cost

bridge id on router

14-) What is the route required to access the 192.168.2.0 network from the 192.168.10 network in the following topology?



- A. RTA: Ip route static 192.168.2.0 24 10.0.12.1 RTB: Ip route static 192.168.1.0 24 10.0.12.2
- B. RTA: Ip route static 192.168.1.0 24 10.0.12.2 RTB: Ip route static 192.168.2.0 24 10.0.12.1
- ☒ C. RTA: Ip route static 192.168.2.0 24 10.0.12.2 RTB: Ip route static 192.168.1.0 24 10.0.12.1
- D. RTA: Ip route static 10.0.12.0 24 192.168.1.0 RTB: Ip route static 10.0.12.0 24 192.168.2.0
- E. RTA: Ip route static 10.0.12.0 24 192.168.2.0 RTB: Ip route static 10.0.12.0 24 192.168.1.0

15-) Which of the following is not one of the properties of TCP ?

- ☒ A. Error Recovery
- B. Ordered data
- C. Connection - Oriented
- ☒ D. Two-way handshake
- E. Windowing

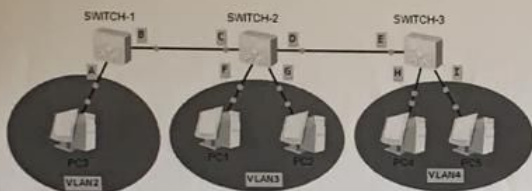
16-) Which of the following benefit is provided by creating VLANs?

- A. decrease security
- B. dedicated bandwidth
- ☒ C. provides segmentation
- D. allows switches to route traffic between sub interfaces
- E. contains collisions

17-) What Tcp Port Number Bgp Use For Connection?

- ☒ A. TCP 178
- ☒ B. TCP 179
- C. UDP 178
- D. UDP 179
- E. Both TCP and UDP 179

18-) If all VLANs are talking to each other, which ports should be set to trunk port pass vlan 2,3,4 ?

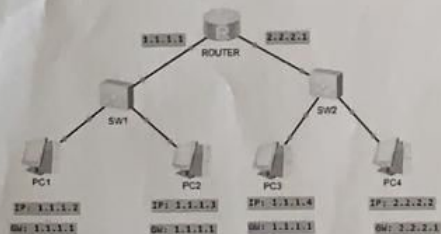


- A. A-F-G-H-I
- B. A-B-C-D-E-F-G-H-I
- ☒ C. B-C-D-E
- D. A-C-D-H-I
- E. C-D-E

19-) Which of the following port state is not belongs to STP ?

- A. Listening
- B. Learning
- ☒ C. Dropping
- D. Forwarding
- E. Disabled

20-) According to following topology ,Which one is not correct ?



- A. PC1 can communicate with PC2 at Layer-2 ✓
- ☒ B. PC1 can communicate with PC3 at layer-3 ✓
- C. PC2 can communicate with PC4 at layer-3 ✓
- D. PC1 can communicate with PC4 at layer-3 ✓
- E. PC4 cannot communicate with PC3 at layer2 or layer3 ✓