

# DA-3-Quiz-II-G2+TG2-CSE1004

Duration:20 Minutes

...

Points: 8.5/10

1. An address is considered CIDR if the address or routing prefix is written with a suffix indicating the number of bits of the prefix. Select the correct CIDR notation from the following list.

(0.5/0.5 Points)

- ☐ a. 192.168.0.1
- ☒ b. 192.168.1.1/24 ✓
- ☐ c. 192.168.1.1 255.255.255.0
- ☐ d. 255.255.255.0



2. Each end of the TCP connection uses a buffer to speed up data flow when the network is busy. Which of the following processes manages the flow controls?

(0/0.5 Points)

- ☒ a. Buffer control
- ☐ b. Sliding window ✓
- ☐ c. Traffic avoidance
- ☐ d. Congestion control

3. Which of the following devices is least likely to need an IP address reservation?  
(0.5/0.5 Points)

- ☒ a. User workstation ✓
- ☐ b. Wireless Access Point
- ☐ c. Server
- ☐ d. Network Printer

4. Which of the following is a public IP address?  
(0.5/0.5 Points)

- ☐ a. 10.10.5.4
- ☐ b. 192.168.0.1
- ☐ c. 10.250.37.6
- ☒ d. 172.67.25.25 ✓

5. Your router has the following IP address on Ethernet0: 172.16.2.1/23. Which of the following can be valid host IDs on the LAN interface attached to the router?  
(0.5/0.5 Points)

- ☐ a. 172.16.1.100
- ☐ b. 172.16.1.198
- ☒ c. 172.16.2.255 ✓
- ☐ d. 172.16.3.0



6. Which of the following is a classful subnet?  
(0/0.5 Points)

- ☐ a. 10.3.0.0/8 ✓
- ☐ b. 192.168.0.0/25

- ☒ c. 172.16. 24.0/24
- ☐ d. 10.100.0.0/16
- ☐ Option 2

7. Which of the following identifies the default loopback IP address that can be used for troubleshooting?  
(0.5/0.5 Points)

- ☐ a. 169.128.0.1
- ☐ b. 172.0.0.1
- ☒ c. 127.0.0.1 ✓
- ☐ d. 192.0.0.1



8. A transmission algorithm that assigns transmission order by a supervisory node. When the transmission medium goes idle, nodes wait for their time slot in accordance with their assigned transmission order. The node assigned to transmit first transmits immediately. The node assigned to transmit second waits one time slot.  
(0/0.5 Points)

- ☐ a. non-persistent
- ☒ b. p-persistent
- ☐ b. o-persistent ✓
- ☐ d. 1-persistent

9. How does CSMA/CD react to collisions?  
(0.5/0.5 Points)

- ☐ a. Collisions do not occur on CSMA/CD.
- ☐ b. All systems jam the network, and then all begin transmitting again.
- ☐ c. Hosts involved in a collision send an RTS signal indicating a time frame in which to

- ☐ retransmit.
- ☒ d. Hosts involved in the collision send a jam signal, and then run an algorithm before retransmitting. ✓

10. An aggressive transmission algorithm that senses if the transmission medium is idle or busy. If idle, it transmits immediately. If busy, it senses the transmission medium continuously until it becomes idle.  
(0.5/0.5 Points)

- ☐ a. non-persistent
- ☐ b. p-persistent
- ☐ c. o-persistent
- ☒ d. 1-persistent ✓

11. A non-aggressive transmission algorithm that senses if the transmission medium is idle or busy. If idle, it transmits immediately. If busy, it waits for a random period before repeating the logic cycle again.  
(0.5/0.5 Points)

- ☒ a. non-persistent ✓
- ☐ b. p-persistent
- ☐ c. o-persistent
- ☐ d. 1-persistent

12. An in-between transmission algorithm that senses if the transmission medium is idle or busy. If idle, it transmits a frame with probability  $p$ . If busy, it senses the transmission medium continuously until it becomes idle, then transmits with probability  $p$ .  
(0.5/0.5 Points)

- ☐ a. non-persistent
- ☒ b. p-persistent ✓
- ☐ c. o-persistent

☐ d. 1-persistent

13. How many usable IPs would be in a subnet with a mask of 255.255.255.0?  
(0.5/0.5 Points)

- ☐ a. 253
- ☒ b. 254 ✓
- ☐ c. 255
- ☐ d. 256

14. Computers are located in the network IP range of 192.168.40.0/24. The default gateway of the router is set to 192.168.51.254/24. The computers don't have connectivity out.  
Which of the following actions could solve the issue for the entire subnet?  
(0.5/0.5 Points)

- ☒ a. Change the user's IP range to 192.168.51.0/24 ✓
- ☐ b. Change the default gateway's IP address to 192.168.51.255/25
- ☐ c. Change the default gateway's IP address to 192.168.51.51/24
- ☐ d. Change the user's IP range to 192.168.51.0/25

15. What is a private IP Address?  
(0.5/0.5 Points)

- ☐ a. a private IP address is a special IP address used to send traffic to entire network systems.
- ☒ b. a private IP address is one that remains on an internal LAN network. It is not routable on the Internet ✓
- ☐ c. a private IP address is used to send traffic simultaneously to multiple stations that have been identified as interested in receiving it
- ☐ d. A private IP address is one that can be assigned and utilized anywhere. It is routed on the Internet.

16. An IP address consists of the following two parts:  
(0.5/0.5 Points)

- ☐ a. Virtual address and network address
- ☐ b. Network address and subnet address
- ☒ c. Network address and node address ✓
- ☐ d. Machine address and internet address

17. Which of the following protocol is designed to improve CSMA performance by terminating transmission as soon as a collision occurs?  
(0.5/0.5 Points)

- ☐ a. ALOHA.
- ☐ b. CSMA/CA.
- ☒ c. CSMA/CD. ✓
- ☐ d. CSMA.

18. A subnet mask \_\_\_\_  
(0.5/0.5 Points)

- ☐ a. is a shadow 32-bit binary address of the IP
- ☒ b. indicates the network address within the IP address ✓
- ☐ c. indicates a secondary 32-bit binary address
- ☐ d. represents the network address of a node

19. How many IP addresses are in a Class B network?  
(0.5/0.5 Points)

- ☒ a. 65,536 ✓
- ☐ b. 256
- ☐ c. 16,777,216

☐ d. 6536

20. What is a static IP address?  
(0.5/0.5 Points)

- ☐ a. one that has been received dynamically but has been set aside so that no other devices can use it.
- ☒ b. One that has been manually configured. ✓
- ☐ c. One that is assigned through DHCP.
- ☐ d. One that is not routable on the internet and is only used on internal networks.

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