

1. The Data link layer is divided into how many sub layers?

Select one:

- a. 3
- b. 4
- c. 1
- d. 2

2. Which device reduces the broadcast domain?

Select one:

- A. Hub
- B. Switch
- C. Bridge
- D. Router

3. How many bits does an IPv4 address have?

Select one:

- A. 128
- B. 8
- C. 16
- D. 32

4. How many Hexa digits does a MAC address contain?

Select one:

- A. 48
- B. 6
- C. 32
- D. 12

5. In computer networks, which of the following protocols has a mechanism to resend lost packets?

Select one:

- A. TCP
- B. TCP/IP
- C. ICMP
- D. UDP

6. Which sublayer of the Data link layer communicates with layer 3 and handles software-related problem?

Select one:

- a. Ethernet
- b. MAC
- c. WiFi
- d. LLC

7. What does IP stand for?

Select one:

- A. Intranet Protocol
- B. Inside Protocol
- C. Internal Protocol
- D. Internet Protocol

8. Given the following IP address 172.16.196.10/20, which of the following is the Broadcast address of this network?

Select one:

- A. 172.16.223.255
- B. 172.16.207.255
- C. 172.16.111.255
- D. 172.16.191.255

9. What protocol does the browser use to communicate with the web server?

Select one:

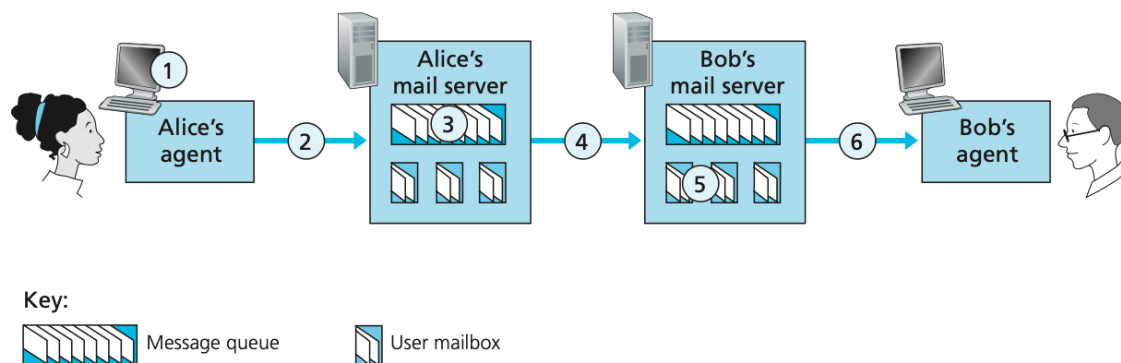
- A. FTP
- B. DNS
- C. HTTPS
- D. DHCP

10. Which layer is responsible for packaging data into datagrams/packets?

Select one:

- a. Network
- b. Application
- c. Data Link
- d. Transport

11. Which protocol is used in box number (4) in the diagram below?



**Figure 2.15** ♦ Alice sends a message to Bob

Select one:

- A. SMTP
- B. IMAP
- C. DNS
- D. DHCP

12. In computer networks, which of the following services is used to resolve domain names into IP addresses and vice versa?

Select one:

- A. Dynamic Name Service
- B. Domain Name Service
- C. Dynamic Name System
- D. Domain Name System

13. What information does the Switch device rely on to transfer frames between ports?

Select one:

- A. List of TCP ports
- B. List of UDP ports
- C. List of IPs
- D. MAC address and port mapping table

14. Which of the following statements correctly describes half-duplex transmission mode?

Select one:

- A. Data can only be transmitted in one direction
- B. Data is transmitted across the network from one direction to many different destinations simultaneously
- C. Data is transmitted across the network in one direction at a time
- D. Data is transmitted over the network in both directions at a time

15. Which of the following IPv6 addresses is valid?

Select one:

- a. FE80 :: 2B0:DOFF:FOE9:4143
- b. FE80 :: 2B0:DOFF :: FEE9:4143
- c. 0:0:0:0:0:0:FFFF:192.168.1.1
- d. FE80 :: 2B0:0:DOFF:0:FEE9:0:4143

16. In computer networks, why is TCP called a reliable protocol?

Select one:

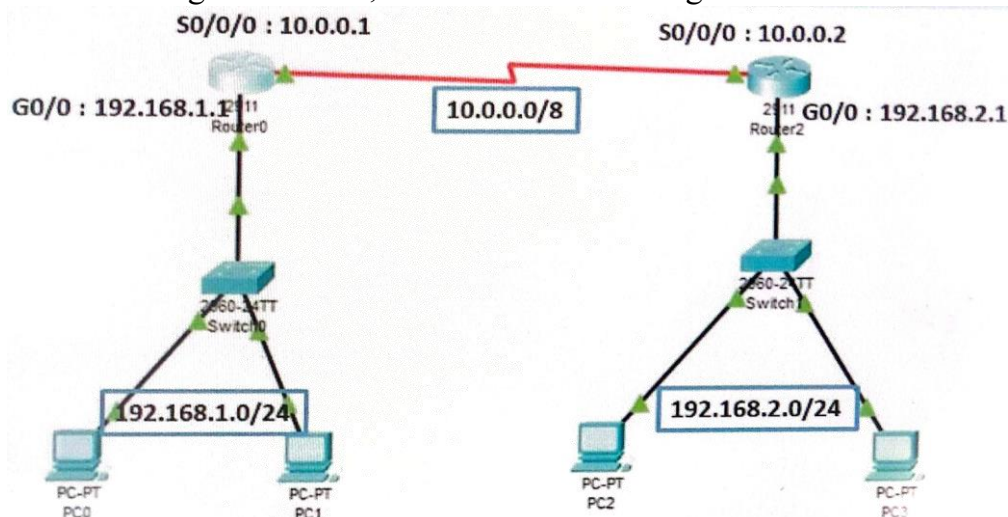
- A. ensures that data is not damaged, lost, duplicated
- B. Data is encrypted
- C. Connection oriented
- D. Large header size

17. Where does multiplexing take place?

Select one:

- A. Senders
- B. Receivers
- C. Server
- D. Client

18. To configure static routing on Router2, which of the following commands should be used?



Select one:

- A. ip route 192.168.1.0 255.0.0.0 10.0.0.1
- B. ip route 192.168.1.0 255.255.255.0 10.0.0.1
- C. ip route 192.168.2.0 255.255.255.0 10.0.0.2
- D. ip route 192.168.2.0 255.255.255.0 10.0.0.1