

Name:

1. Which topology requires a central controller or hub?

- A) Star
- B) Mesh
- C) Bus
- D) Ring

2. A ____ is a data communication system spanning states, countries, or the whole world.

- A) LAN
- B) MAN
- C) WAN
- D) None of the above

3. A _____ is a set of rules that governs data communication.

- A) Topology
- B) Protocol
- C) Standard
- D) Syntax

4. The ____ address uniquely defines a host on the Internet.

- A) Physical
- B) Port
- C) IP
- D) Specific

5. The _____ address identifies a process on a host.

- A) Physical
- B) Port
- C) IP
- D) Specific

6. When a host on network A sends a message to a host on network B, which address does the router look at?

- A) Physical
- B) Port
- C) IP
- D) Specific

7. The _____ layer establishes, maintains, and synchronizes the interactions between communicating devices.

- A) Physical
- B) Network
- C) Transport
- D) Session

8. The _____ layer is responsible for the process-to-process delivery of the entire message.

- A) Physical
- B) Network
- C) Transport
- D) Data Link

9. The ____ layer is responsible for the source-to-destination delivery of a packet across multiple network links.

- A) Physical
- B) Network
- C) Transport
- D) Data Link

10. The _____ layer is responsible for delivering data units from one station to the next without errors.

- A) Physical
- B) Network
- C) Transport
- D) Data Link

11. The _____ layer coordinates the functions required to transmit a bit stream over a physical medium.

- A) Physical
- B) Network
- C) Transport
- D) Data Link

12. A fully connected network with 5 nodes requires _____ number of cables.

- A) 5
- B) 10
- C) 15
- D) 25

13. A virtual local area network (VLAN) is configured by _____.

- A) Physical wiring
- B) Software
- C) Hardware
- D) None of them

14. Membership in a VLAN can be based on _____.

- A) Port Numbers
- B) IP Addresses
- C) MAC Addresses
- D) All of the above

15. A three-layer switch is a kind of _____.

- A) Repeater
- B) Bridge
- C) Hub
- D) Router

16. When displaying a web page, the application layer uses the

- A) HTTP protocol
- B) FTP protocol
- C) SMTP protocol
- D) None of the mentioned

17. Which of the following is an application layer service?

- A) Network virtual terminal
- B) File transfer, access, and management
- C) Mail service
- D) All of the mentioned

18. In FTP protocol, client contacts server using _____ as the reliable transport protocol.

- A) Transmission control protocol
- B) User datagram protocol
- C) Datagram congestion control protocol
- D) Stream control transmission protocol

19. If 5 files are transferred from server A to client B in the same session. The number of TCP connection (control and data connections) between A and B is

- A) 10
- B) 5
- C) 6
- D) 2

20. Which topology covers security, robust and eliminating traffic factor?

- A) Mesh
- B) Star
- C) Ring
- D) Bus