

What are the four main classifications of computer networks mentioned in the paragraph?

- a. PAN, LAN, MAN, WAN
- b. Internet, Ethernet, WiFi, Bluetooth
- c. TCP/IP, CSMA/CD, CSMA/CA, IEEE
- d. Repeater, Bridge, Switch, Router

Answer: a. PAN, LAN, MAN, WAN

What does PAN stand for in network classification?

- a. Personal Area Network
- b. Public Access Network
- c. Private Area Network
- d. Peripheral Area Network

Answer: a. Personal Area Network

Which network is typically used for communications within a single building or building complex?

- a. PAN
- b. LAN
- c. MAN
- d. WAN

Answer: b. LAN

What does MAN stand for in network classification?

- a. Miniature Area Network
- b. Metropolitan Area Network
- c. Mobile Area Network
- d. Multipurpose Area Network

Answer: b. Metropolitan Area Network

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Which network spans a local community?

- a. PAN
- b. LAN
- c. MAN
- d. WAN

Answer: c. MAN

What is the most significant difference between a LAN and a WAN?

- a. LANs are wireless, while WANs are wired.
- b. LANs cover a smaller geographic area than WANs.
- c. LANs are open networks, while WANs are closed networks.
- d. LANs use CSMA/CD, while WANs use CSMA/CA.

Answer: b. LANs cover a smaller geographic area than WANs.

What is the Internet classified as in terms of network openness?

- a. Closed network
- b. Proprietary network
- c. Open network
- d. Private network

Answer: c. Open network

What collection of standards governs communication throughout the Internet?

- a. Ethernet standards
- b. IEEE standards
- c. TCP/IP protocol suite
- d. CSMA/CD protocol

Answer: c. TCP/IP protocol suite

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What type of network design allows machines to communicate through a central access point (AP)?

- a. Bus topology
- b. Star topology
- c. Ethernet topology
- d. IEEE topology

Answer: b. Star topology

Which network topology was popularized in the 1990s under Ethernet standards?

- a. Bus topology
- b. Star topology
- c. Mesh topology
- d. Ring topology

Answer: a. Bus topology

What is the primary advantage of using the star topology in wireless networks?

- a. It minimizes the need for routers.
- b. It eliminates the need for access points (APs).
- c. It simplifies network management.
- d. It facilitates communication through radio broadcast.

Answer: d. It facilitates communication through radio broadcast.

What protocol controls the right to transmit messages in a bus network based on Ethernet standards?

- a. TCP/IP
- b. CSMA/CA
- c. CSMA/CD
- d. IEEE 802.11

Answer: c. CSMA/CD

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Why is CSMA/CD not compatible with wireless star networks?

- a. It requires a central access point (AP).
- b. It cannot detect collisions in wireless networks.
- c. It uses a different addressing scheme.
- d. It is too expensive to implement wirelessly.

Answer: b. It cannot detect collisions in wireless networks.

What approach to collision avoidance is commonly used in wireless networks?

- a. CSMA/CD
- b. CSMA/CA
- c. Ethernet standards
- d. IEEE protocols

Answer: b. CSMA/CA

How do routers differ from repeaters, bridges, and switches in network connectivity?

- a. Routers connect networks while maintaining their individual characteristics.
- b. Routers amplify signals between connected networks.
- c. Routers always forward all messages across connections.
- d. Routers are used primarily in star topologies.

Answer: a. Routers connect networks while maintaining their individual characteristics.

What term is used to describe a network that connects existing networks to form an extended communication system?

- a. Internet
- b. Intranet
- c. Gateway
- d. Internet of Things (IoT)

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Answer: c. Gateway

What is the primary purpose of a gateway in networking?

- a. To connect devices within a single network
- b. To connect LANs to the Internet
- c. To replace routers in network connections
- d. To serve as a central access point (AP)

Answer: b. To connect LANs to the Internet

What model defines the roles of processes as either clients or servers in inter-process communication?

- a. Peer-to-peer model
- b. Client/server model
- c. Ethernet model
- d. TCP/IP model

Answer: b. Client/server model

What model involves processes that provide service to and receive service from each other?

- a. Client/server model
- b. Peer-to-peer model
- c. Ethernet model
- d. WAN model

Answer: b. Peer-to-peer model

What term describes a network consisting of software units that execute as processes on different computers?

- a. Intranet
- b. Extranet
- c. Distributed system

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d. Cluster computing

Answer: c. Distributed system

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