



Name of the Bundle	Proficient Bundle V1	Subject	Networking V1
Topic	Types of Networks	Last updated on	07 July 2025

1. What does PAN stand for?

- A. Personal Area Network
- B. Public Area Network
- C. Private Access Network
- D. Protected Area Network

Answer: A. Personal Area Network

Explanation: PAN stands for Personal Area Network. It is used for connecting devices over a very short range, typically within a few meters.

2. Which type of network is typically used within a single building or campus?

- A. WAN
- B. LAN
- C. MAN
- D. PAN

Answer: B. LAN

Explanation: A Local Area Network (LAN) covers a small geographic area like a home, office, or campus.



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3. Which network type is best suited for a smart home setup?

- A. WAN
- B. MAN
- C. PAN
- D. LAN

Answer: C. PAN

Explanation: PAN is ideal for short-range communication between personal devices like smartphones, tablets, smartwatches, and home assistants.

4. What does MAN stand for?

- A. Major Area Network
- B. Metropolitan Area Network
- C. Multiple Access Network
- D. Mobile Area Network

Answer: B. Metropolitan Area Network

Explanation: MAN stands for Metropolitan Area Network, designed to cover a city or large campus.



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5. Which network type spans the largest geographical area?

- A. PAN
- B. LAN
- C. MAN
- D. WAN

Answer: D. WAN

Explanation: Wide Area Network (WAN) connects devices over large distances, such as between cities or countries. The internet is an example.

6. Bluetooth technology is most commonly used in which type of network?

- A. LAN
- B. PAN
- C. MAN
- D. WAN

Answer: B. PAN

Explanation: Bluetooth supports Personal Area Networks, enabling device communication over short ranges.



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7. What is a key characteristic of a LAN?

- A. Uses satellite links
- B. Covers a continent
- C. High speed and low latency
- D. Covers a city

Answer: C. High speed and low latency

Explanation: LANs are fast and reliable because of the close proximity of connected devices.

8. A university campus network is typically classified as a:

- A. PAN
- B. LAN
- C. MAN
- D. WAN

Answer: C. MAN

Explanation: A MAN covers a larger area than a LAN, such as a university or large city infrastructure.



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9. The internet is an example of which type of network?

- A. LAN
- B. MAN
- C. WAN
- D. PAN

Answer: C. WAN

Explanation: The internet is a global system of interconnected networks—qualifying it as a Wide Area Network.

10. Which of the following is NOT a benefit of a LAN?

- A. High speed
- B. Cost-effective
- C. Easy to maintain
- D. Covers large distances

Answer: D. Covers large distances

Explanation: LANs are not designed for long-range connections; they are meant for localized environments.



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11. Which network is most likely to use fiber optic cables between cities?

- A. PAN
- B. LAN
- C. MAN
- D. WAN

Answer: D. WAN

Explanation: WANs use fiber optic and other long-distance transmission technologies to connect cities and countries.

12. Which network type is most vulnerable to external attacks due to its large coverage?

- A. PAN
- B. LAN
- C. MAN
- D. WAN

Answer: D. WAN

Explanation: WANs are exposed to more threats due to their wide accessibility and use of public infrastructure.



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13. Which of the following best describes a LAN?

- A. Interconnects cities
- B. Interconnects countries
- C. Interconnects devices within a building
- D. Interconnects satellites

Answer: C. Interconnects devices within a building

Explanation: A LAN is limited to a specific physical area, like a building or small office.

14. Which network type is typically used in large companies with offices across different cities?

- A. LAN
- B. MAN
- C. WAN
- D. PAN

Answer: C. WAN

Explanation: WANs connect geographically dispersed offices and facilities.



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15. Which network type is primarily used for communication between wearable devices and smartphones?

- A. PAN
- B. LAN
- C. MAN
- D. WAN

Answer: A. PAN

Explanation: Wearables like fitness trackers often connect via Bluetooth, a PAN technology.

16. Which of these is a characteristic of MAN?

- A. Owned by a single user
- B. Covers a small office
- C. Typically used within a home
- D. Covers a city or metro area

Answer: D. Covers a city or metro area

Explanation: MAN is ideal for urban networking like linking different buildings in a city.



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17. Which is the smallest in terms of geographical coverage?

- A. WAN
- B. MAN
- C. PAN
- D. LAN

Answer: C. PAN

Explanation: PANs operate in the smallest range, usually under 10 meters.

18. Which type of network typically offers the highest speed?

- A. WAN
- B. MAN
- C. PAN
- D. LAN

Answer: D. LAN

Explanation: Because of short distances and fewer routers, LANs can provide very high speeds.



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19. A city-wide surveillance system would most likely use which type of network?

- A. PAN
- B. LAN
- C. MAN
- D. WAN

Answer: C. MAN

Explanation: MAN is well-suited for city-wide connectivity, such as traffic lights or surveillance.

20. What is the typical range of a Personal Area Network (PAN)?

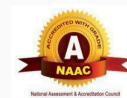
- A. 100 meters
- B. 10 kilometers
- C. 10 meters
- D. 1 kilometer

Answer: C. 10 meters

Explanation: PANs generally operate within a short range—typically up to 10 meters.



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21. Which of the following is a common technology used in PANs?

- A. Fiber optics
- B. Bluetooth
- C. Microwave
- D. Satellite

Answer: B. Bluetooth

Explanation: Bluetooth is widely used in PANs for short-range wireless communication.

22. What type of devices are typically connected in a PAN?

- A. Mainframes and servers
- B. Smartphones, tablets, and laptops
- C. Routers and switches
- D. Data centers

Answer: B. Smartphones, tablets, and laptops

Explanation: PANs connect personal devices like smartphones, tablets, laptops, and smartwatches.



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23. What is the main purpose of a Personal Area Network?

- A. To connect networks between cities
- B. To provide internet access to an entire building
- C. To connect personal digital devices within close range
- D. To transmit TV signals

Answer: C. To connect personal digital devices within close range

Explanation: PANs are specifically designed for personal use over short distances.

24. What does LAN stand for?

- A. Long Area Network
- B. Large Application Network
- C. Local Area Network
- D. Limited Access Network

Answer: C. Local Area Network

Explanation: LAN stands for Local Area Network, designed for a limited geographic area.



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25. What is the maximum typical range of a LAN?

- A. 10 meters
- B. 100 meters
- C. 1 kilometer
- D. 10 kilometers

Answer: C. 1 kilometer

Explanation: LANs can typically be extended up to 1 km using appropriate networking equipment.

26. Which of the following is the most common use of a LAN?

- A. Connecting two cities
- B. Connecting computers in a classroom
- C. Connecting satellites
- D. Connecting mobile towers

Answer: B. Connecting computers in a classroom

Explanation: A LAN is often used in environments like classrooms, offices, and homes.



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27. Which device is commonly used to connect computers in a LAN?

- A. Satellite
- B. Router
- C. Switch
- D. Modem

Answer: C. Switch

Explanation: Switches are commonly used in LANs to connect multiple computers within a network.

28. Which of the following is a key advantage of LANs?

- A. Global coverage
- B. High-speed data transfer
- C. Uses satellites
- D. No cabling needed

Answer: B. High-speed data transfer

Explanation: LANs provide high-speed communication due to short distances and limited traffic.



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29. Where are LANs commonly used?

- A. Between different countries
- B. In homes, schools, and offices
- C. In airplanes
- D. On satellites

Answer: B. In homes, schools, and offices

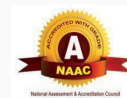
Explanation: LANs are ideal for connecting devices in small, fixed locations.

30. Which media is commonly used in wired LANs?

- A. Bluetooth
- B. Coaxial cable
- C. Optical fiber or Ethernet cables
- D. Infrared

Answer: C. Optical fiber or Ethernet cables

Explanation: LANs often use Ethernet or fiber cables for reliable, high-speed connectivity.



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31. What is the typical range of a MAN?

- A. 10 meters
- B. 1 km
- C. 30–40 km
- D. 300–400 km

Answer: C. 30–40 km

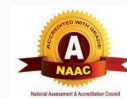
Explanation: MANs are designed to span areas such as cities or metro regions, usually up to 40 km.

32. Which of the following is an example of a MAN?

- A. Bluetooth connection between two phones
- B. A LAN in a school
- C. City-wide Wi-Fi network
- D. A satellite internet connection

Answer: C. City-wide Wi-Fi network

Explanation: MANs often provide connectivity across cities, like public Wi-Fi or municipal networks.



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33. Who typically owns and operates a MAN?

- A. Individual users
- B. Small business owners
- C. Large organizations or government bodies
- D. Social media companies

Answer: C. Large organizations or government bodies

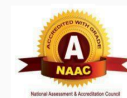
Explanation: Due to the infrastructure and cost, MANs are usually managed by entities like municipalities or large enterprises.

34. What is the primary use of MANs?

- A. Connecting personal devices
- B. Streaming between home devices
- C. Linking LANs within a city
- D. Controlling satellites

Answer: C. Linking LANs within a city

Explanation: MANs interconnect multiple LANs within a large geographic area like a city.



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35. What technology is often used to create MANs?

- A. Bluetooth
- B. Fiber optic cables
- C. USB cables
- D. Infrared

Answer: B. Fiber optic cables

Explanation: High-speed fiber optics are commonly used to provide reliable and fast connections over long distances in MANs.

36. What does WAN stand for?

- A. Wide Access Network
- B. Wireless Area Network
- C. Wide Area Network
- D. Web Application Network

Answer: C. Wide Area Network

Explanation: WAN stands for Wide Area Network, which spans large geographical areas like countries or continents.



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37. What is the best example of a WAN?

- A. Office LAN
- B. Home Wi-Fi
- C. Bluetooth between phone and speaker
- D. The Internet

Answer: D. The Internet

Explanation: The Internet is the largest WAN, connecting billions of devices across the globe.

38. WANs are commonly used to connect:

- A. Devices in a single room
- B. Devices in a small office
- C. Networks across countries or continents
- D. Devices in a single building

Answer: C. Networks across countries or continents

Explanation: WANs interconnect LANs and other networks over vast distances.



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39. Which of the following is a key advantage of a WAN?

- A. Low cost
- B. Short setup time
- C. Centralized data access for global businesses
- D. High speed over short distances

Answer: C. Centralized data access for global businesses

Explanation: WANs allow global companies to access and manage data from anywhere in the world.

40. Which of these technologies is commonly used in WANs?

- A. Bluetooth
- B. Ethernet only
- C. Fiber optic and satellite communication
- D. USB

Answer: C. Fiber optic and satellite communication

Explanation: WANs rely on high-capacity links like fiber optics and satellites to connect distant locations.