

**Strong Tower Academy**

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**Computer studies**

**SSS 1**

### **TYPES OF DATA NETWORK**

Networks are usually classified according to physical or organizational structure. The following are major data networks.

- 1. PERSONAL AREA NETWORK (PAN)**
- 2. LOCAL AREA NETWORK (LAN)**
- 3. WIDE AREA NETWORK (WAN)**
- 4. STORAGE AREA NETWORK (SAN)**
- 5. BACKBONE AREA NETWORK (BAN)**

- 1) Personal Area Network (PAN):-** This network is used for communication between a computer and other devices close to one person. It typically has a 10 meter range within the devices. Some of the elements and Devices of this type of network include: computers, printers, fax machines, scanners, phones, PDAs, Bluetooth, infrared, wired cables e.t.c.
- 2) Local Area Network (LAN):-** This is a network that interconnects computers and Devices within a limited area such as a home, school, computer lab, office, e.t.c. LAN could either be wired or wireless. Other forms of LAN could include;- the Home Area Network (HAN) which is a sort of residential LAN for home use. Campus Area Network (CAN) which is an interconnection of LAN within a limited geographical area, e.t.c.
- 3) Wide Area Network (WAN):-** This is a network that covers a large geographical areas such as a city, country, continents, e.t.c. Its makes use of a combination of channel media such as telephone lines, cable, air waves and so on. A good example would be the internet. Another forms of WAN would be the metropolitan Area Network (MAN) and others.
- 4) Storage Area Network (SAN):-** These are dedicated networks that provided access to stored data. They make storage devices accessible to servers so that they seem physically attached to the servers. This types of network also has its own storage system that can't be accessed from the LAN and other devices.
- 5) Backbone Network :-** This is the part of network that connects various pieces of network(s) between LAN and subnetworks . A backbone network is usually of higher capacity than its connecting LANs.

Applications of the back bone network include (but are not limited to ) the internet, the interconnection of branches / departments of an organization through one network (referred to as the backbone ) which could either be in the same building or different locations.

#### **Note**

Each computer or device on a network is a **NODE**.

#### **Assignment**

Write short note on **METROPOLITAN AREA NETWORK (MAN)**

