Answer for the Assignment

1. Connecting two or more computers to share data and resources.

2. Enables resource sharing, communication, centralized data, and internet access.

3. B. Sharing of data and resources between computers

4. A network is local; the internet is a global collection of networks.

5. A collection of networks.

6. Email, web browsing, file sharing.

7.

- Star – All devices connect to a central hub or switch.

- Ring – Devices are connected in a circular loop.

- Bus – All devices share a single communication line.

8. B. Star

9.

Advantages: Reliable, fault-tolerant.

Disadvantages: Expensive to install, complex to manage.

10.

- LAN (Local Area Network): Covers a small area like a home or office.

- MAN (Metropolitan Area Network): Covers a city or large campus.

- WAN (Wide Area Network): Covers large geographical areas.

11. LAN – because it is cost-effective for small areas.

12. D. WAN

13.

- Router – Connects different networks together.

- Switch – Connects devices in a LAN and manages traffic.

- Hub – Connects devices but sends data to all.

- Modem – Converts digital to analog for internet access.

14. A switch sends data to specific devices; a hub sends it to all.

15. True