

Assignment 1

Qus 1. Explain how networks affect our lives with suitable examples.

Qus 2. Describe the components of a computer network with neat diagrams.

Qus 3. Differentiate between Client–Server and Peer-to-Peer networks.

Qus 4. Explain LAN, MAN, and WAN with one example each.

Qus 5. Compare simplex, half-duplex, and full-duplex modes of communication.

Qus 6. Explain different **network topologies** (Star, Bus, Ring, Mesh, Tree) with:

- Diagrams
- Advantages
- Disadvantages

Qus 7. Discuss the functions of:

- Hub
- Switch
- Router

Qus 8. Explain **types of communication networks**:

- Point-to-Point
- Multipoint
- Broadcast

Include advantages and disadvantages of each.

Qus 9. A college campus consists of:

- Administrative block
 - Computer labs
 - Library
 - Classrooms
1. Which type of network (LAN / MAN / WAN) is suitable?
 2. Which topology would you recommend and why?
 3. Name any two networking devices required.