Student´s task sheet   **TOPIC: Network Topologies**
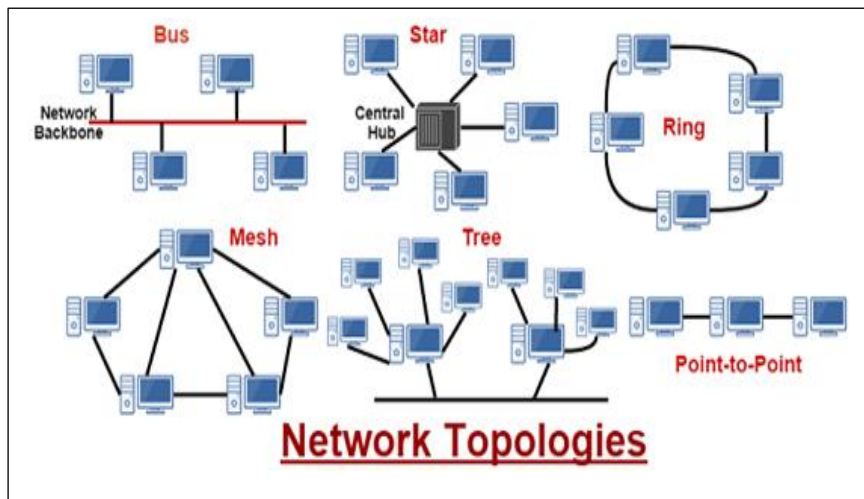
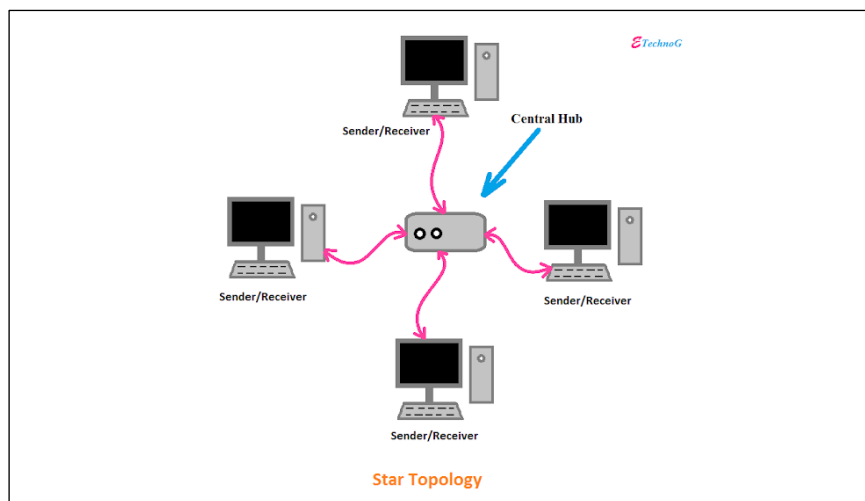| PART TWO	Information Technology Technical Question	3 mins

In this part of the exam, you will talk about **Network Topologies**. The following ideas will help you.

- What types of network topology arrangements do you know? E.g., Bus, Star, Ring, Mesh……
- Which is the most popular choice and why?
- Can you give examples of where some are used?

2A

2B

INTERLOCUTOR´S TASK SHEET   TOPIC: Network Topologies

PART TWO	Information Technology Technical Question	3 mins

In this part of the exam, you will talk about **Network Topologies**. The following ideas will help you.

- • What types of network topology arrangements do you know? E.g., Bus, Star, Ring, Mesh……

  Network topologies describe the arrangement of various elements in a computer network:
  - o **Bus Topology:** All devices are connected to a single central cable, called the bus or backbone. Data sent from a device travel along the bus until it reaches its destination.
  - o **Star Topology:** All devices are connected to a central hub or switch. Data sent from a device passes through the hub before reaching its destination.
  - o **Ring Topology:** Each device is connected to two other devices, forming a circular data path. Data travels in one direction around the ring until it reaches its destination.
  - o **Mesh Topology:** Devices are interconnected, with each device having a direct link to every other device. This provides high redundancy and reliability.
  - o **Tree Topology:** A hybrid topology that combines star and bus topologies. Devices are arranged in a hierarchical structure, with a central root node and branches of nodes.
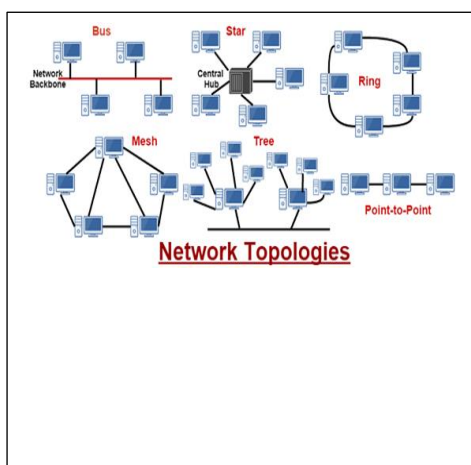
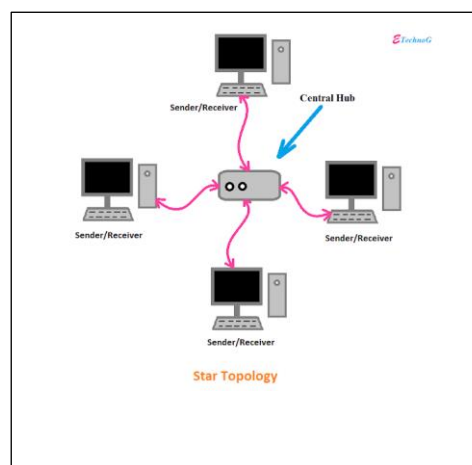- • Which is the most popular choice and why?

  Star
  - o Easy to Install and Manage: It's easy to expand the network by adding more devices to the central hub without disrupting the existing network.
  - o Centralized Control
  - o Fault Isolation
  - o Performance
  - o Security

- • Can you give examples of where some are used?

  Servers, Printers

2A

2B