

UIT2403 – Data Communication and Networking

UNIT I: INTRODUCTION TO NETWORKS

Tutorial – I

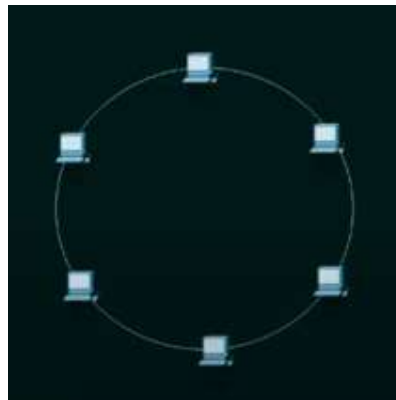
Network Topology

Bus, Ring, Star and Mesh Topologies

Part-I

Date: 05.03.2024

1. Identify the given topology and determine the how many cables and ports are required to have such network?



2. Traffic problem can be minimized using topology.
 - a. Star
 - b. Bus
 - c. Ring
 - d. Mesh
3. How many ports and cables are needed for a star topology?
4. Assume six devices arranged in a mesh topology.
 - a) How many cables are needed for each node?
 - b) How many ports are needed for each node?
 - c) How many ports are there in the entire network?
5. Assume seven devices are installed in a mesh and star topology. For each topology,
 - a) How many cables are needed?
 - b) How many ports are needed for each device?
 - c) Draw the design of the topology.
