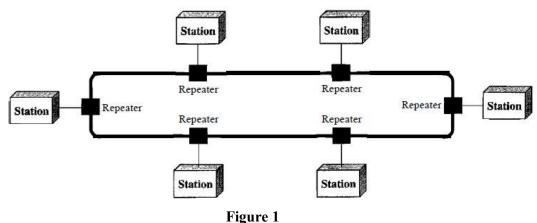
UIT2403 - Data Communication and Networking UNIT I: INTRODUCTION TO NETWORKS Tutorial - II

Network Topology Bus, Ring, Star and Mesh Topologies Part-II

Date: 05.03.2024

- **1.** For *n* devices in a network, what is the number of cable links required for a mesh, ring, bus, and star topology?
- **2.** For each of the following four networks, discuss the consequences if a connection fails.
 - a) Five devices arranged in a mesh topology
 - **b)** Five devices arranged in a star topology (not counting the hub)
 - c) Five devices arranged in a bus topology
 - d) Five devices arranged in a ring topology
- **3.** In the ring topology in Figure 1, what happens if one of the stations is unplugged?



4. In the bus topology in Figure 2, what happens if one of the stations is unplugged?

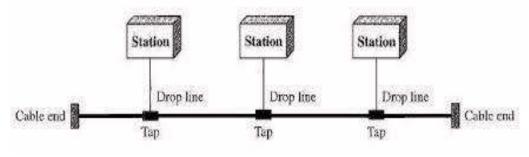


Figure 2

- **5.** Draw a hybrid topology with a star backbone and three ring networks.
- **6.** Draw a hybrid topology with a ring backbone and two bus networks.
