**Department of Information Technology**

**GCWUF**

**Class**  BS (IT) **Semester:** 6th

**Course Title:** System and network administration **Course Code:** ICT-504

# Assignment No. 01

# Due Date:

Your assignment must be uploaded/submitted before or on **19 feb 2019.**

**Assignment Topic:**

The topic of the assignment is **Network topologies and transmission modes and OSI model**

**Objective:**

This assignment has been designed so that you can Learn Transmission Modes and topologies

**Question No 1:**

1: Write five examples of each of following Transmission Mode?

1. Simplex Communication.
2. Half-Duplex Communication.
3. Full-Duplex Communication.

**Question No 2:**

Suppose a company hires you as network manager and you have to setup their small office as first task that has 10 computers, 2 printers and 1 scanner. To connect all the computers and peripheral devices as a network, you are required to answer the following questions:

1. Which topology do you think will be feasible in such case? Explain with proper reasoning.
2. If Mesh topology is followed then how many number of links and ports are required
3. To which category does the given network belong to?
4. Which mode of communication (simplex, half duplex, full duplex) is suitable when a   computer communicates to a printer for printing? Also give one more example of that mode.