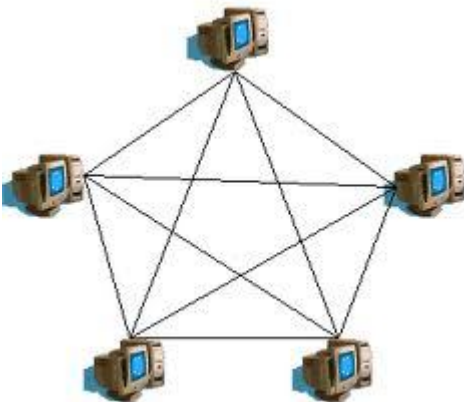


A distance learning university updated its exam schedule. Students are notified about this updating by using the following types of communication:

- 1) Announcement on university's website. >simplex
- 2) Sending e-mail to every student. , , , , <half duplex
- 3) Sending SMS/text on every student's cell phone. >simplex
- 4) By making a call on every student's cell phone. >full duplex
- 5) Displaying notification by the newspaper. <half duplex

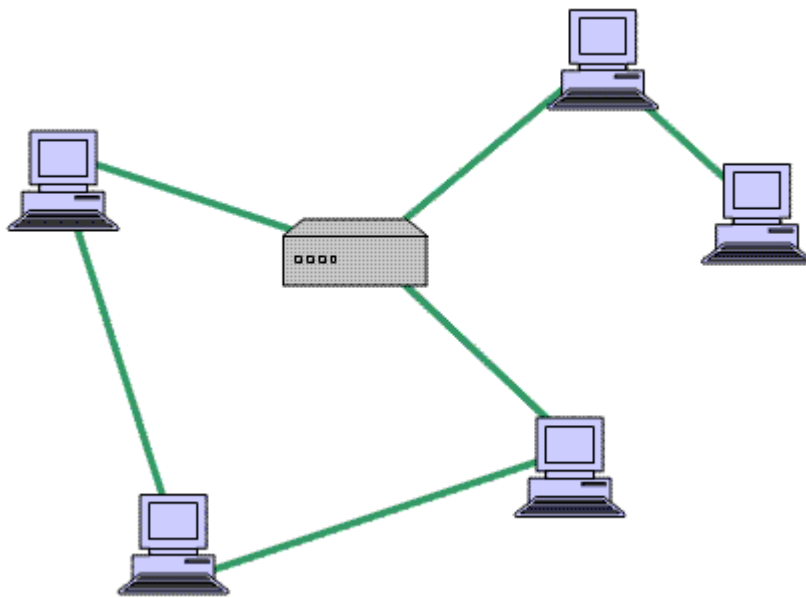
- a) Identify each of the above types as simplex, half duplex and full duplex.
- b) According to the given scenario, which communication mode (simplex, half duplex, full duplex) is more effective? Discuss with proper reasoning.



MESH topology network

This diagram illustrates the mesh network topology. A mesh topology provides redundant communication paths between some or all devices (partial or full mesh).

Note: Only For Guide line not A solution



nothing need
to connect 2
printers each
other....but
connect to
others
computers as
well.

and in such
case always
become 28
links..

n = total number of devices

Formula No. of link is

$$n(n-1)/2$$

so here

Computer is **6**,

Printer is **2**,

No. of nodes is 8

n = 8

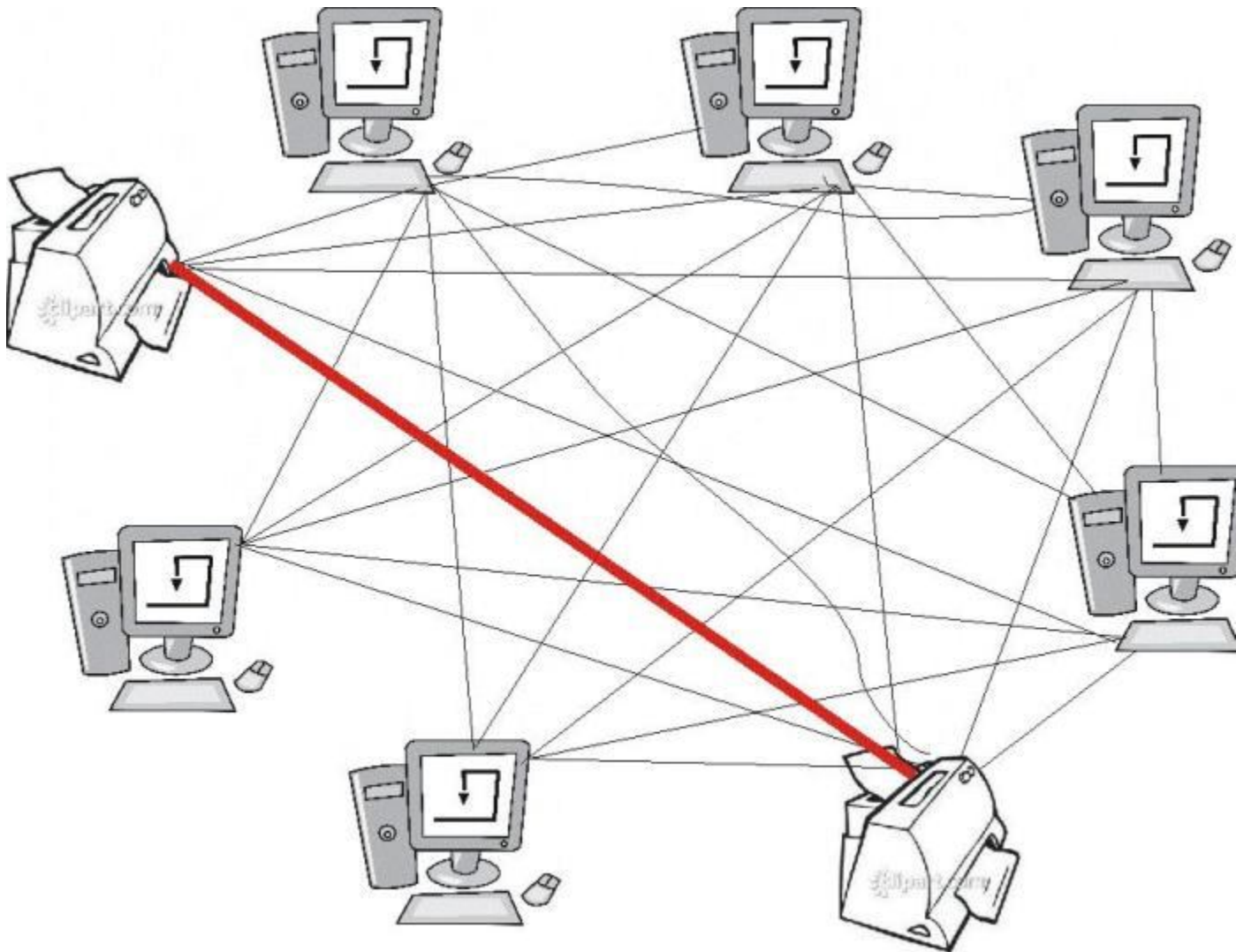
If we take in mind that

1_Printer as a node

2_and printer can't connect to each other

then

we connect each computer and printer together same this which is show already in discussion...



So,

$$8(8-1)/2$$

=28 links

And

$$\text{I/O Ports} = n-1$$

$$=8-1=7$$