

Ex-10a)

Date : 25/9/24.

INTERNETWORKING WITH ROUTERS

AIM :

Implementation of internetworking with routers
in Cisco Packet Tracer Simulator.

PROCEDURE :

1) Create a network using routers and PCs. Connect PCs and router through copper straight-through cable.

2) Let's configure PCs and Routers :

→ To configure Router, open CLI of router and then configure the GigabitEthernet Interfaces.

For GigabitEthernet 0/0^{and 0/1}, set IP addresses and gateway and same for PCs.

For Router 1 : GigabitEthernet 0/0 :

IP address : 192.168.10.1

Subnet mask : 255.255.255.0

GigabitEthernet 0/1 :

IP address : 192.168.20.1

Subnet mask : 255.255.255.0

For PC0 :

IP address : 192.168.10.2

Subnet mask : 255.255.255.0

Gateway : 192.168.10.1

For PC1 :

IP address : 192.168.20.2

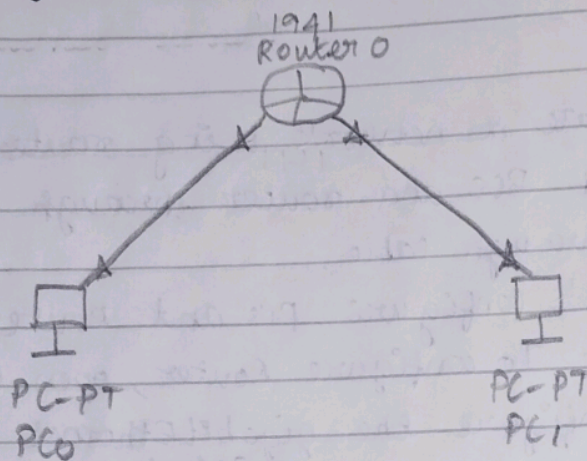
Subnet mask : 255.255.255.0

Gateway : 192.168.20.1

Let's assume PC0 as sender and PC1 as receiver (i.e) send PDU from PC0 to PC1.

This makes sure the connection is made correctly or not.

Diagrammatic representation:



SIMULATION TABLE:

Vis.	Time (Sec)	Last Device
	0.000	-
	0.001	PC0
	0.002	Router 0
	0.003	PC1
	0.004	Router 0
✓	51.326	-
✓	51.326	-

OUTPUT :

Fire	Last Status	Source	Destination	Type	Color	Time	Periodic
○	Successful	PC0	PC1	ICMP	□	0.000	N

RESULT :

To implement Internetworking with routers is executed and the output is verified.

[Signature]