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Section - A

Course - MCA

University Rollno - 2001025

Subject name - Computer Networks

Subject code - TMC 203

Q1.

Problem Statement: Design a network for the HR department and the size of the department

Objective: to create LAN using packet tracer

Step 1 - go to [End Devices] which is located at left bottom or use $\text{ctrl} + \text{alt} + \text{v}$ to open after that right side new option will appear & drag & drop 10 pc to working area & one switch because the ~~swp~~ switch will helps to establish LAN connection between users/pc's.

Step 2 - connect them with Copper straight and give ~~ad~~ different port ethernet connection

Step 3 - give all user/pc ip addresses and subnet mask by manually.

Step 4 - In the last we have to test the connection by ping command. Open ~~cmd~~ Command prompt by clicking on one pc/user then go to desktop and enter ping command with Ip address of ~~o~~ 5th user/pc.

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 1015, y: 51 [Root] 05:16:30

The diagram shows a central switch labeled '2950-24 Switch0' connected to 10 PCs labeled 'PC-PT PC0' through 'PC-PT PC9'. The PCs are arranged in a circular pattern around the switch, with lines representing network connections. The interface is in the 'Physical' tab.

PC0

Physical Config Desktop Programming Attributes

Command Prompt

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Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.5

Pinging 192.168.10.5 with 32 bytes of data:

Reply from 192.168.10.5: bytes=32 time=10ms TTL=128
Reply from 192.168.10.5: bytes=32 time<1ms TTL=128
Reply from 192.168.10.5: bytes=32 time<1ms TTL=128
Reply from 192.168.10.5: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.10.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>
```

Time: 00:10:32

Realtime Simulation

Copper Straight-Through