Q1.) 1.) firstly we'll setup a server named as organization A.

2.) Connect a switch which will create paths for different department including HR.

3.) Connect 10 users (given) with switch from company server.

4.) Connecting all by copper-straight through.

5.) first giving IP address to server and than giving default gatway to establish DHCP.

6.) One server setup completes, Run and request IPs from particular PCs by running DHCP.

7.) It will provide IP addresses to all the users connected to HR department.

8.) Take a packet, put it through PC1 and see it getting successfully transferred to PC 5.

Organisation A

— □ ✕

Physical | Config | Services | Desktop | Programming | Attributes

| GLOBAL |
| Settings |
| Algorithm Settings |
| **INTERFACE** |
| FastEthernet0 |

FastEthernet0

Port Status .... ☑ On
Bandwidth .... ◉ 100 Mbps ◯ 10 Mbps ☑ Auto
Duplex .... ◯ Half Duplex ◉ Full Duplex ☑ Auto
MAC Address 00E0.F99B.D9D7

IP Configuration
◯ DHCP
◉ Static

IPv4 Address 192.168.1.2
Subnet Mask 255.255.255.0

IPv6 Configuration
◯ Automatic
◉ Static

IPv6 Address .... /
Link Local Address: FE80::2E0:F9FF:FE9B:D9D7

☐ Top

PC9 — □ ×

Physical   Config   Desktop   Programming   Attributes

IP Configuration   ×

Interface   FastEthernet0   ∨

IP Configuration

◉ DHCP   ○ Static   DHCP request successful.

IPv4 Address   192.168.1.6

Subnet Mask   255.255.255.0

Default Gateway   0.0.0.0

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ◉ Static

IPv6 Address   [   ] / [   ]

Link Local Address FE80::209:7CFF:FE96:DA3

Default Gateway   [   ]

DNS Server   [   ]

802.1X
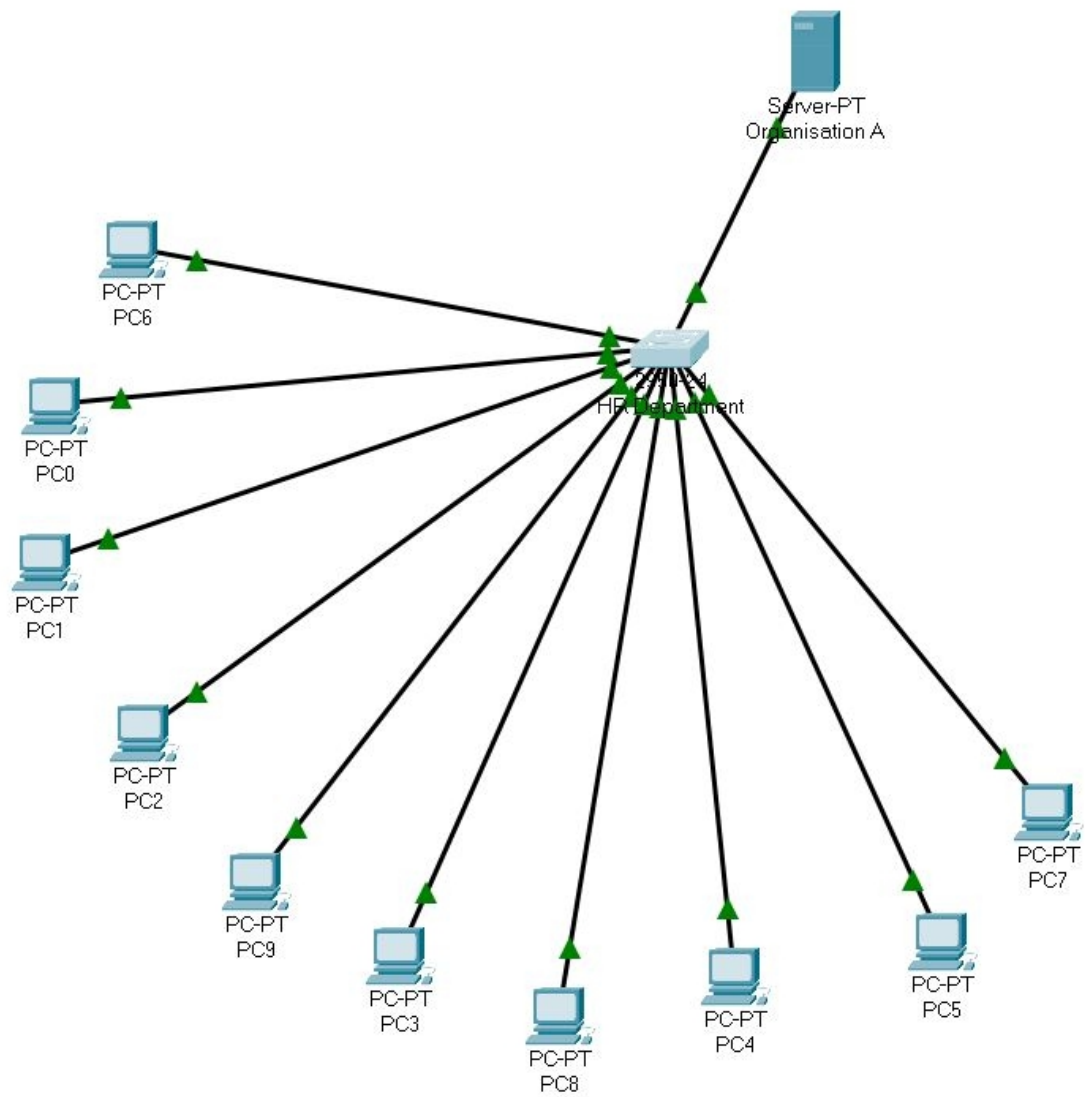
☐ Use 802.1X Security

Authentication   MD5   ∨

Username   [   ]

Password   [   ]

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Server-PT
Organisation A

PC-PT
PC6

PC-PT
PC0

PC-PT
PC1

PC-PT
PC2

PC-PT
PC9

PC-PT
PC3

PC-PT
PC8

PC-PT
PC4

PC-PT
PC5

PC-PT
PC7

HR Department

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
◖	Successful	PC1	PC5	ICMP	■	0.000	N	0	(edit)		(delete)