COMPUTER NETWORKS

Assignment - 5

NAME: MOHAMED ANAS A

ROLL NO: 23CS090

CLASS : CSE-B

SUBJECT: COMPUTER NETWORKS

Objecve:

To connect Admin, HR, and other departments using routers, switches, and wireless routers for secure and seamless communica on.

Network Devices Used: t

- 1 Router (ISR4321)
- 1 Switch (2960-24TT)
- 5 Wireless Routers (WRT300N)
- 1 Laptop (Admin Department1)
- 4 PCs (Departments 2 to 5)
- Cables (Copper Straight-Through)

IP Addressing Scheme:

| Department | Device IP Address | | Subnet Mask | |
|-------------|-------------------|-------------------|---------------|---------------|
| department1 | Laptop 17.1.1.10 | | 255.255.255.0 | |
| department2 | PC | 17.1.2.10 | 255.255 | .255.0 |
| department3 | PC | 17.1.3.10 | 255.255 | .255.0 |
| department4 | PC | 17.1.4.10 | 255.255 | .255.0 |
| department5 | PC | 17.1.5.10 | 255.255 | .255.0 |
| department1 | Wireles | s Router 17.1.1.1 | | 255.255.255.0 |
| department2 | Wireles | s Router 17.1.2.1 | | 255.255.255.0 |
| department3 | Wireles | s Router 17.1.3.1 | | 255.255.255.0 |
| department4 | Wireles | s Router 17.1.4.1 | | 255.255.255.0 |
| department5 | Wireles | s Router 17.1.5.1 | | 255.255.255.0 |

Procedure:

- 1. Placed required devices and connected using appropriate cables.
- 2. Assigned sta c IP addresses to each device.

- 3. Configured wireless routers with SSIDs for each department.
- 4. Set up sta c routes for communica on between all departments.
- 5. Verified connec vity using the ping command.

Output:





