RIP Version 1 Network Topology and Configuration

1. Network Topology Overview

❖ Mumbai Team A (192.10.1.0/24):
  - Devices: PCs, Printer, and Laptop.
  - Switch: 2960-24TT.
  - IP Address Scheme:
    - PCs: 192.10.1.10, 192.10.1.20, 192.10.1.30, 192.10.1.40
    - Printer: 192.10.1.60
    - Laptop: 192.10.1.50
  - Router0: Connected to network 192.10.1.0/24 and other networks using RIP.

❖ Pune Team B (192.10.2.0/24):
  - Devices: PCs, Printer, and Laptop.
  - Switch: 2960-24TT.
  - IP Address Scheme:
    - PCs: 192.10.2.10, 192.10.2.20, 192.10.2.30, 192.10.2.40
    - Printer: 192.10.2.60
    - Laptop: 192.10.2.50
  - Router3: Connected to network 192.10.2.0/24 and other networks using RIP.

2. RIP Configuration on Routers

❖ **Router0: Commands used**:

```
Router(config)#router rip
Router(config-router)#network 192.10.1.0
Router(config-router)#network 192.10.3.0
Router(config-router)#exit
Router(config)# do show ip route rip
```
Networks included in RIP: 192.10.1.0/24 and 192.10.3.0/24.

❖ **Router1: Commands used:**

```
Router(config)#router rip
Router(config-router)#network 192.10.3.0
Router(config-router)#network 192.10.5.0
Router(config-router)#exit
```
Networks included in RIP: 192.10.3.0/24 and 192.10.5.0/24.

❖ **Router2: Commands used:**

```
Router(config)#router rip
Router(config-router)#network 192.10.5.0
Router(config-router)#network 192.10.4.0
Router(config-router)#exit
```
Networks included in RIP: 192.10.5.0/24 and 192.10.4.0/24.

❖ **Router3: Commands used:**

```
Router(config)#router rip
Router(config-router)#network 192.10.4.0
Router(config-router)#network 192.10.2.0
Router(config-router)#exit
```
Networks included in RIP: 192.10.4.0/24 and 192.10.2.0/24.

3. RIP Version Information

RIP Version 1 is enabled by default; however, you can specify it if needed:
`Router(config-router)#version 1`
In this network setup, routers are using RIP version 1 to exchange routes within the 192.10.x.x networks.

4. External Network Connections

Cloud Networks:
- "Other Network Like Delhi" and "Other Network Like Nagpur" represent external networks possibly connected to Routers 1 and 2 respectively, but these are not detailed in the current topology.

5. Summary of Subnetting

Subnetting Information:
- 192.10.1.0/24: Assigned to Mumbai Team A.
- 192.10.2.0/24: Assigned to Pune Team B.
- 192.10.3.0/24: Link between Router0 and Router1.
- 192.10.4.0/24: Link between Router1 and Router2.
- 192.10.5.0/24: Link between Router2 and Router3.