**COMPUTER NETWORKS**

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**Question:**

**Research about Topics for Project and submit a deliverables document having:**

**• Organization Name**

**• Number of Floors of the Organization**

**• Number of PC / Server in the system**

**Answer:**

**Project Deliverables Document**

**1. Organization Details**

**Organization Name**: [Name of the organization, e.g., Tech Innovators Inc.]  
**Type of Business**: [Specify the organization's domain, e.g., Software Development, Retail, Educational Institution]  
**Location**: [Optional - specify a city or region]

**2. Network Infrastructure**

**Number of Floors:**

[Specify the total number of floors. For example, 3 floors - Ground, First, and Second.]

**Number of PCs / Servers:**

1. **PCs**:
   * **Floor 1 (Ground)**: Reception Area, Customer Support - 10 PCs
   * **Floor 2 (First)**: Development Team, Conference Room - 25 PCs
   * **Floor 3 (Second)**: HR, Management Offices - 15 PCs

**Total PCs**: 50 PCs

1. **Servers**:
   * Central Data Server Room: **3 Servers**
     + Application Server
     + File Server
     + Backup Server

**Total Servers**: 3 Servers

**3. Network Architecture**

1. **Equipment**:
   * Routers: 1 main router connecting all floors.
   * Switches: One per floor, with enough ports for PCs and devices.
   * Wireless Access Points (WAPs): One per floor for wireless devices.
   * Cabling: Cat6 Ethernet cables.
2. **IP Addressing Plan**:
   * Use **subnetting** to allocate IP addresses to each floor.
   * Example:
     + Floor 1: 192.168.1.0/26
     + Floor 2: 192.168.1.64/26
     + Floor 3: 192.168.1.128/26

**4. Future Scope**

* Add more PCs or servers as the organization grows.
* Enhance network security with firewalls and VLANs.
* Implement cloud-based backup solutions.

**Example Document:**

**Organization Name**: Future Tech Solutions  
**Number of Floors**: 4  
**Number of PCs**: 100 (distributed across floors)  
**Number of Servers**: 5