COMSATS University Islamabad, Abbottabad Campus
Department of Computer Science

LAB Midterm Examination – (Fall 2023)

Class: BSE-5A   Date: 13 Nov 2023
Subject: Data Communications and Computer Networks   Instructor: Dr. Sardar Khaliq uz Zaman

---

Total Time Allowed: 90 Minutes

Q: Design a campus network for COMSATS university with three departments computer science, civil-engineering and electrical-engineering.

1. Label all nodes with names/IP addresses.
2. The campus network must provide the following services to the clients.
   - Web access
   - Email access
   - DNS
3. Assign the IP address to the clients using DHCP Server. And assign the IPs to Servers as given below (use your reg # in the 3rd octet).

S. No	Description	Domain Name/IPs
1.	Web Server Name	www.cve.com
2.	Web Server IP	192.168.reg#.4
3.	DHCP/DNS Server IP	192.168.reg#.5
4.	SMTP Server IP	192.168.reg#.6
5.	SMTP/Email clients IDs	user1@cve.com user2@cve.com user3@cve.com