

# LAN Mode Lab Test

Q1

VLAN	CIDR	1st IP	Last IP	BA	SM
10	/25	192.168.1.1	192.168.1.126	192.168.1.127	255.255.255.128
20	/27	192.168.1.127	192.168.1.158	192.168.1.159	255.255.255.124
30	/29	192.168.1.161	192.168.1.166	192.168.1.167	255.255.255.128
32-25 = 7		192.168.1.0	1111 1111 1111 1111	1111 1111 1111 1000 0000	
32-27 = 5		192.168.1.1000	1111 0000	1110 0000	2591
32-29 = 3		192.168.1.1010	1111 0000	1111 1	2729

Q2

b)

Device	Port	VLAN	PC Interface	IP	SM	Default Gateway
SW1	Eg0/22	All	N/A	NA	NA	NA
SW1	Eg0/23	All	N/A	NA	NA	NA
SW1	Eg0/24	All	N/A	NA	NA	NA
SW2	Eg0/25	10 (Staff)	PC1-NIC	192.168.1.12	/25	192.168.1.1
SW2	Eg0/6-10	20 (Student)	PC2-NIC	192.168.1.130	/27	192.168.1.129
SW2	Eg0/15-17	30 (Guest)	PC3-NIC	192.168.1.162	/27	192.168.1.161
SW3	Eg0/2-5	10 (Staff)	PC4-NIC	192.168.1.13	/25	192.168.1.1
SW3	Eg0/6-10	20 (Student)	PC5-NIC	192.168.1.131	/27	192.168.1.127