Discussion Points for Lab 12

20 pts
1.) What three conditions are necessary for the successful parallel operation of alternators in a power network?

2.) How are phasing lamps used to connect alternators in parallel? What is observed from the phasing lamps when both machines are operating at the same frequency, phasing, and voltage magnitude?

3.) What is observed from the phasing lamps when the machines operate at different frequencies? What is observed from the phasing lamps when the phase sequences of two machines are different?

4.) What is an infinite bus?

5.) List the steps in the procedure for paralleling an alternator with an infinite bus. List the steps for paralleling two alternators.