## OBSERVATION TABLE

	Star Connection							Delta Connection					
Sr. No	VL	V <sub>P</sub>	I <sub>L</sub>	lp	V <sub>L</sub> /V <sub>P</sub>	lL/lp	VL	V <sub>P</sub>	lL	lp	$V_L/V_P$	- IL/Ip	
1.	500	h5	0.025	3.035	1.739	1	200	200	0.15	0 35	1	2	
2.	300	170	0.07	F0.0	1.764	1	300	800	0.68	0.425	1	1-6	
3.	400	220	0.2)	0.21	1.81	١	400	400	\$8.0	650	1	1.72	

line quantities of voltage and current in

a) Star aveneded (V<sub>L</sub> = 52 Vpu

Th = Ipn

b) Delta connected (V<sub>L</sub> = Vpn) **CONCLUSION:** 

( I = [3Ipr)

**ESTIONS:** 

- 1. Explain in brief how three-phase voltage is generated with the help of necessary diagrams.
- 2. Draw the wave form and the phasor diagram of three-phase generated voltage.

- 3. Three equal and adequately rated impedances are connected in star and then in delta to the same voltage source. Determine the ratio of the current and power drawn in delta compared to that drawn in star.
- 4. How would you use one wattmeter to compute power in a balanced 3-phase circuit both star and delta? What are the difficulties to be faced in the method?
- 5. With neat sketch show how two wattmeter can be connected to measure 3-phase power. What are the advantages of this method?

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