a	V	ladc	Ifdc	P	phase
1.5	1905	29.4	11.2	8710	8.76
0.34	1905	11.6	11.61	1866	1.88
0.23	1905	7.31	11.8	-1215	-1.2
0.82	1905	0.32	12.05	-4046	-4.62
5					
0 ———	8				
-5	-2500	0	2500	5000	7500

MOLETION 39. Manni Uniyal. 1) State conditions for synchronization of 2 altemators. Ans - Both phase+magnitude must be equal for grid nottage & synchronous machine terminal nottage. terminal noltage & synchronous machine phase sequence. Treg. of 2 alterators must be similar. (not equal) State effect of woong synchronisation. Ans > when phase sequence isn't matched thenitore sults in high nottage, which damages the mindings.

Then nottages arent matched it hads to short cranit. > When freq is not similar, it results in sudden acceleration/deceleration of rotor, leading to damaging shaft. Explain necessity of synchronisation Ans System becomes unstable if not synchrowing Altomators will trip from high noltage Swing that Lamage components like generator. State adv. of using no. of small
generating units instead of single
large whit ofor suppling power.

In Small generating unit in parallel
even when I unit gets shut down others
when single large mit gets shut
down then system gets down Also
in order to accomodate vatings of
current small generating units one
when freq of incoming alternator is
kept slightly higher than bristoar freq?

Ans After sime due to load sharing
incoming alternator reduces its speed.

Afternator increasing its speed isn't
possible if we don't kelp freq not
higher, and this to reduce freez to
match incoming atternator, leadings
to reduced freq of and and efficiency.

Trom given First sotup how can you make symchroniseamachine become generator feeding power to bous?

By gradually increasing excitation of field which increases terminal involtage greater than and not age thence, generator feeds power to how. If 2 400 V machines are synchronized by either lasklamp or bright lamp method what will be nottage rating of bulb +Commal & grid nottage will be 180' out of phase warm to some Voltage operating across bullo

= V+ - V+ L180° = 2 V+ rollage.