0.	det bus upllage Viti Visit (14)
	det bus vollage (t) = Vmsin (ut): generator vollage (t) = Vmsin (wgt +t) d: Initial phose difference.
	de laite de la
	don the
5	Jou phase A:
	$(cmp(t) = V_g(t) - V_b(t)$
	= Vmsin(wgt+0) - Vmsin(wbt)
	$V_{comp}(t) = V_{g}(t) - V_{b}(t)$ $= V_{m}sin(w_{g}t + 0) - V_{m}sin(w_{b}t).$ $U_{s}ing sinA - sinB. = 2 los(A_{f}B) \cdot sin(A_{f}B).$
10:	Viomp(t) = 2 Vm Cos (Out+wt+b) sin (ugt+d-wst).
	So, the lamp voltage oscillates of the beat frequency.
	· · ·
15	blu bright and dook.
	Letter had a little of the contrate of a contrate
. 9	the blocking mate = luice the scholar energy
	the blisting rate = luice the slip fuguery 2 x /fg-fol. Yarimum brightness is when prose difference is 180.
7	the home prose any evence is 100.
V	Dorliness when the phose difference is o
· . P	hase sequence is correct all blomps blu'le these together.
	AVR.
Qs.	Lyston. Yollog
Par	I tope
Set	Point Yo load
	Turbin 9
	ω .
15	Another fuequency Frequency
	Control Koad fuquery fewbork

Date:_

	Date:
	Excitation System: - (2)
•	Controls the field coverent of the generator
•	Excitation System: Lostrols the field coverent of of the generator Affects the learning voltage of the generator. AVR: Uses & voltage deed book to mand to be dead to the second of
	AVR:
•	Uses & voltage feed back to regulate the terminal voltage. Adjusts the excitation system accordingly.
•	Adjusts the excitation suctions against the learner to 16age.
	ys our according by
•	Lord facquency control. Uses feedback frequency feedback to mountain System facquency. Adjusts the control value to modify the coput to the Turbine Ensure active power bolonger.
• 10	Uses feedback prequency leadback to many
- 4	Juguerry. Juntous System
0	Adjusts to control unless to
	to the turbine
0	Ensure active house halos
15	Ensure active power bolance and stabilizes frequery.
	Voltage Jeedbock AVD
	vollage. Lacitation -> Controls terricel
1	Voltage Jeedbock , AVR , Excitation , Controls terniel
	Freeze mon Forgital
20	Lorliols generator Speed
	controls generator Speed
1000	to said which the training the to
	· Hay sequence i most but to
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	Janeary Johnson Janeary

a Stor Connected R=24-2

Let Generator Voltage Se Et= 1.060° PU

$$\theta = \tan^{1}\left(\frac{1.0}{1.935}\right) = 42.38^{\circ}$$

$$I = \frac{E}{Z} = \frac{120^{\circ}}{2.688} 242.38$$

Voltage across was: