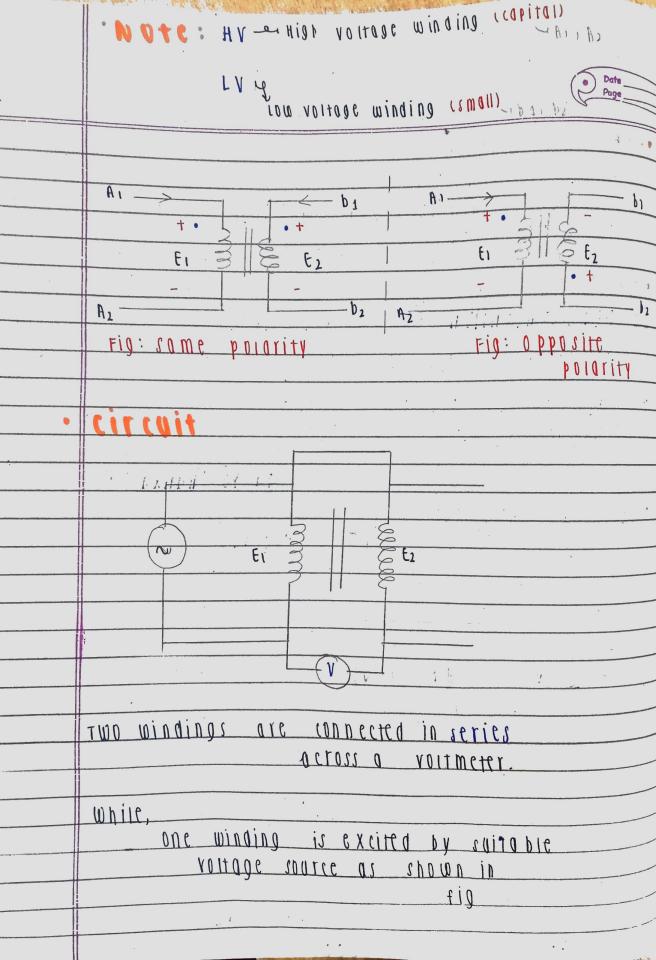
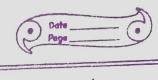
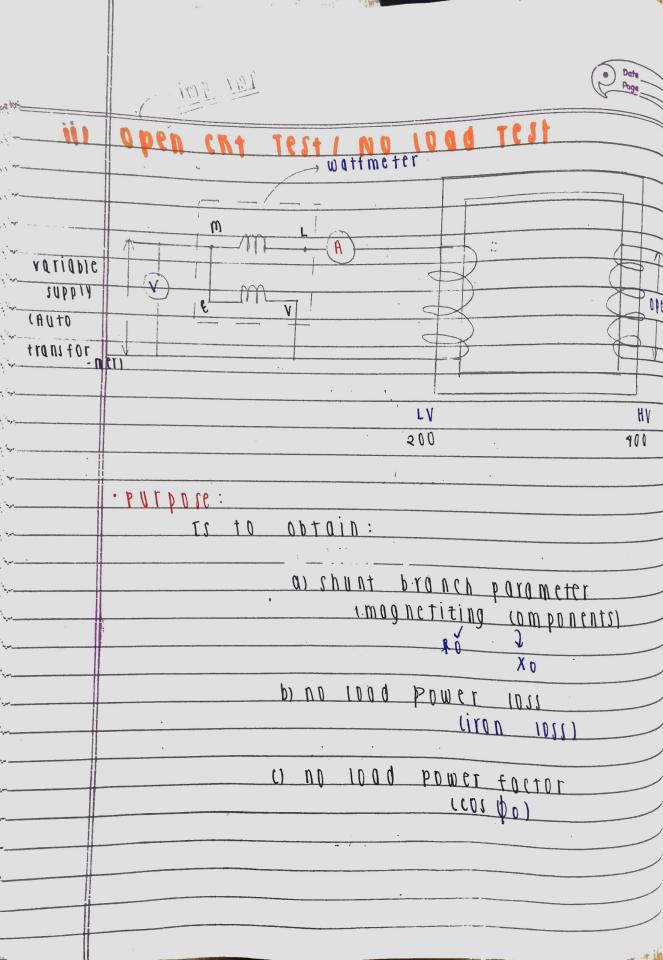
sth Dec 19M 10 PLANTI AD 1297 i) Polarity test ii) open circuit test / No load test iii) short circuit test in polarity test Dot convention are used to indicate the polarity. · It gives the voltage polarity at the antted (terminal) cuter or leave daror ansint matter · It is assumed that dotted terminal - +ye V2 VI bı A + E t₂ b 2 AL





	(g) case 1:
	(a) (13)
ş v 2-	
-	
	+ 18 + 6) + + 1
-	(N) E1 3 6 E2
	FIRST COLUMN
-	
-	Fig: same polarity
+	
-	
-	volt meter reading = E1-E2
-	
1	
	,
-	6 LOSE T:
_	
4	+ 1 1 8
1	(N) E1 3 / E E2
	+
-	
	Fig: Opp polority
	FIG: UVP PVIOLITY

· Voltmeter reading _____ E1 + E2



	·Note: Transformer no rating 200 ~10 kg
	200 400
	20 KO Date Page
	LY HV
•	Proced ure
	usually, ammeter 1
	· voit meter are connected on
	d. mottmeter 1 1000 voitage side
	/
	to measure:
	· no load current
	· opplied voltage
	4 · power consumed.
	The high voitage side - kept open
	ford dually
	the supply voltage is varied till the
	voltmeter (v) shows the rated voltage of that side
	1. 1.6. 300 A
	191
	wo = wattmeter reading
	In = ammèter reading
	vi = voitmeter reading
	we know that,
	WO = V1 To (CDS 00



·· COS Do = Wo VIJO

φο = (05-) | Wο

IG = 10 COS do

Im = Iosingo

IO

we know, V = I R.

:. R = V

no load Test

sabai in ref. to primary

10.

 $RD = V_1$ $X_0 = V_1$

Im

equivalent int of transformer on

 $R01 = R1 + \frac{R2}{K^2}$ $20 \quad 10i \quad 10 \quad 10g \quad 1e$ $vaye = by \quad K^2$

 $\frac{\chi_{01} = \chi_{1} + \chi_{2}}{K^{2}}$ $\frac{1^{\circ} + 0^{\circ}}{V^{\circ} + 0^{\circ}}$

