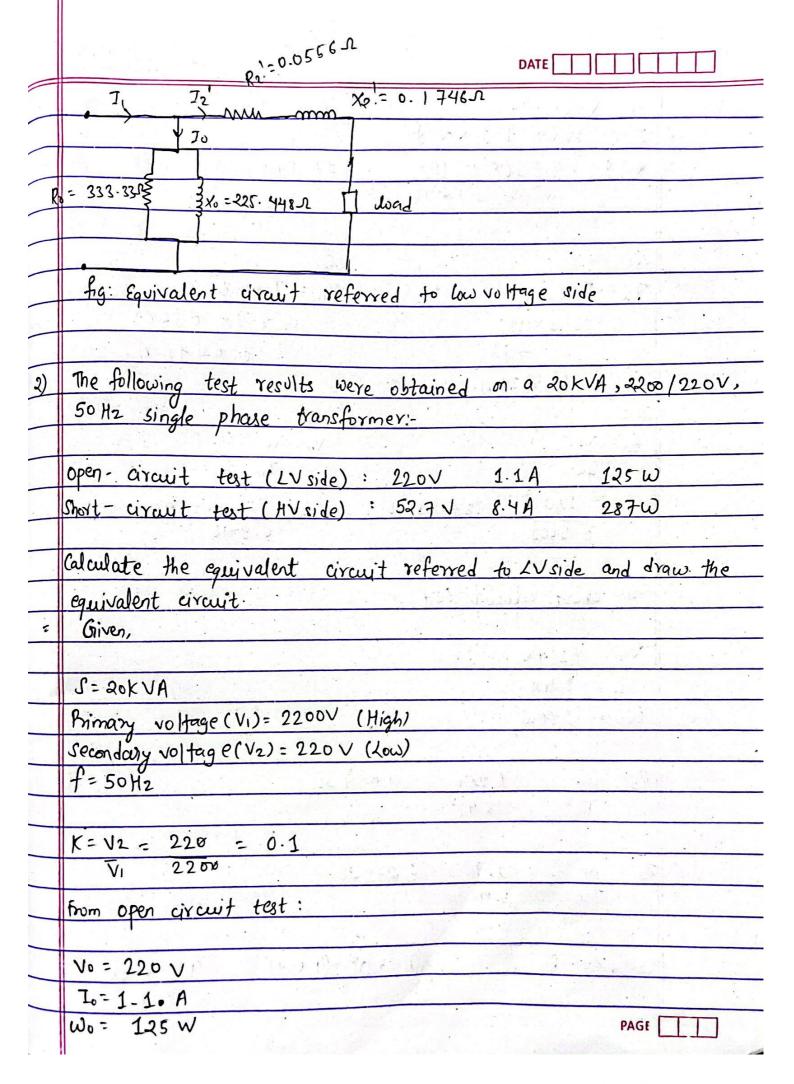
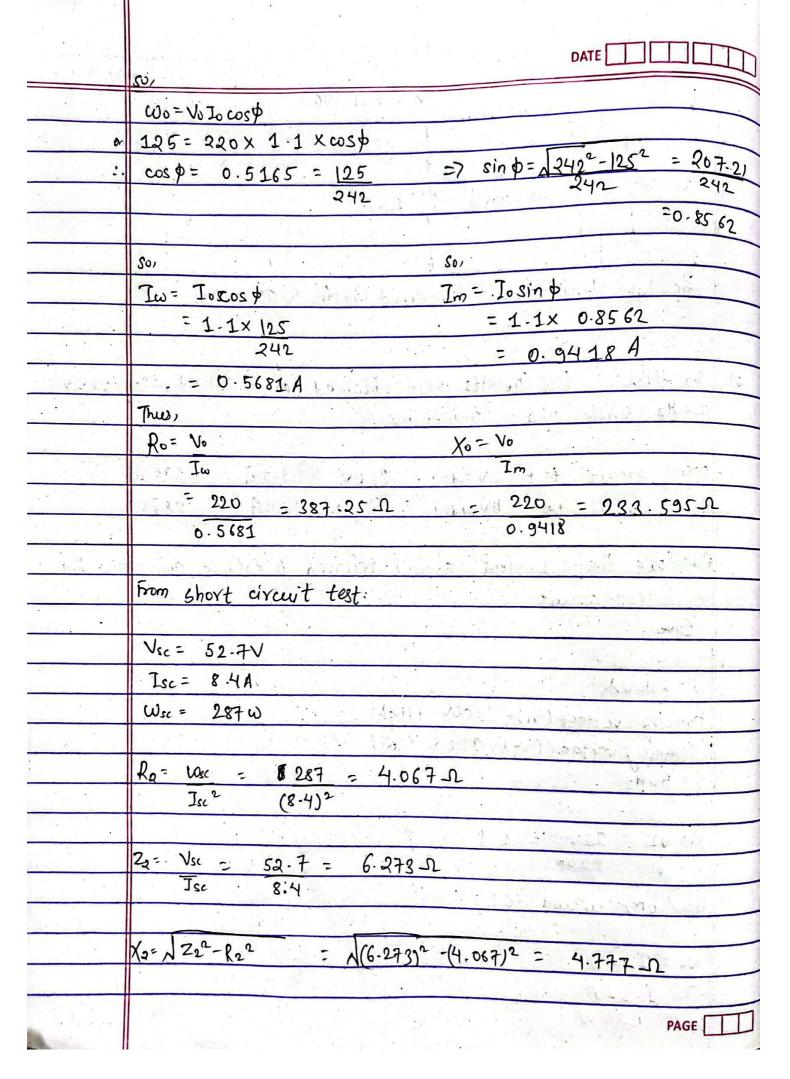
	KK ma'am assignment
	DATE
.1	A 10 KVA, 200 1400 V., 50Hz, 1 phase transformer gave the
	following results:
	OC test (HV open): 200 V 1-3A 120W
	Sc test (LV short): 22V 30A 200W
	Determine shunt and series branch parameters referred to Low
	Determine shunt and series branch parameters referred to Low Voltage side and hence draw equivalent circuit diagram also.
1	Given,
_	Primary voltage (VI) = 200V (Low)
	Secondary voltage (V2)=400V (High)
_	frequency (f) = 50 Hz
_	Non Valle a diam o
	Now, K= V2 = 400 = 2
-	From open circuit test (done on Low voltage)
	Total opul alleast test of
	V. = 200V
	I = 1-3A
	$\omega = 120 \omega$
	But the wife of the second of
	Now, W=VIcosp
_	120 = 200×1.3 cus\$
	$1 \cdot \cos \phi = 6$ $1 \cdot \sin \phi = \sqrt{18^2 - 6^2} = \sqrt{183}$
_	
	$I_{w} = I \cos \beta$ $I_{m} = 1.3 \times \sqrt{133}$ $I_{m} = 1.3 \times \sqrt{133}$
_	$= 1.3 \times 6$ $= 1.153$
-	The state of the s
	= 0.6A PAGE T

	DATE
	Νοω,
	Ro = V = 200 = 333.333.72
	Iw 0.6
	Xo: V = 200 - 225.448 D.
	lm 1.153
	From short circuit test (done on High Voltage)
1,000	Vsc = 22V
	Isc = 30A
	Wsi = 200 W
	Now, Wsc = Isc 2 R2
	$l_2 = Wsc = 200 = 0.222 \Omega$
	Isc2 (30)2
	7
	Z2 = Vsc = 22 = 0.7333 1
11111111	Νοω
	$\chi_2 = \sqrt{Z_2^2 - R_2^2} = \sqrt{(0.7333)^2 - (0.2272)^2} = 6.6985 \Omega$
	Now, equivalent parameter referred to law voltage side
	(in this case primary)
	$Ra' = R_{e} = 0.222 = 0.00556 \Omega$ k^{2}
	X21 = X2 = 0.6985 = 0.1746 IL
	Now drawing equivalent circuit
	PAGE TI





	DATE		
	Changing into equivalent parameters.		
	$R_0' = K^2 \times R_2 \qquad \qquad X_0' = K^2 \times X_2$		
	$= (0.1)^{2} \times 4.067 = (0.1)^{2} \times 4.777$	1,30	
_	= 0.04067_2 = 0.04777_2		
_			
-	Davida es l'airquit		
-	Drawing eg? circuit Ro = 0.04067.2 Ro = 0.04777.2	N.	
	Ro'= 0.047771		
	, Jum mm		
	R=97,25 3x=233.595-12 Load		
	16-3 V 3	1 Janes	
-			
4			
#			
#			
-			