	Tutorial sheet-10 Electrical Soir
	Electrical Science-1 (158115cott)
01.	A c:
	A Single phase 2300/230V, 50 Hz
	area of 0.05 m2. If the maximum
Malala	flux density is 1.1 wholes Core section
	at want and and and
	and secondary
Q2.	A crimale of the state of the s
	A single phase transformer has 400
	Premary and 1000 secondary turns.
	is 60 cm2. If the primary winding is
	Connected to a 50 Hz supply at 520V.
	Connected to a 50 Hz supply at 520V.
a)	Peak value of flux density in core.
(d	Transformation vatio.
(c)	voltage induced in the secondary.
0.2	n 220/4001 lokva, 50 Hz Single above
0.3-	transformer has full load copper loss
	of 120 W. It has an efficiency of 98%.
	at full load unity power factor. Determine
	iron loss and also determine efficiency
	of transformer at half of full load
	at 0.8 power factor lagging.
Q4.	The efficiency of a 400KVA stright
	1 1 20 20 1 2 2 2 1 2
	delevering full load at 0.8 ff and
	2 1 1 2 1/ 2 1- NAUL OF 1
	anity power factor, calculate a) The iron-loss b) Full load copper loss
	a) The fron-was
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	the same of the sa
as.	A single phase 50kVA, 440/220V,
100 100 100 100 100 100 100 100 100 100	transformer taking no load
- Commercial	current of 0.6 A with a power
alaka	factor of 0.65 (lagging). Calculate
PACON.	factor of 0.65 (lagging). Calculate the load parameters Im, Iw
	Ro and Xo. pestorasse some
inas 400	se A sinoliphose boundaries
	promony and lood sucondary
	The Cross sectional and of the
	IS GO CM2. If the primary with
work to	Cenverid to a 50Hz supply
	- statutes .
CHE!	i Pearx value of Hux denoity is