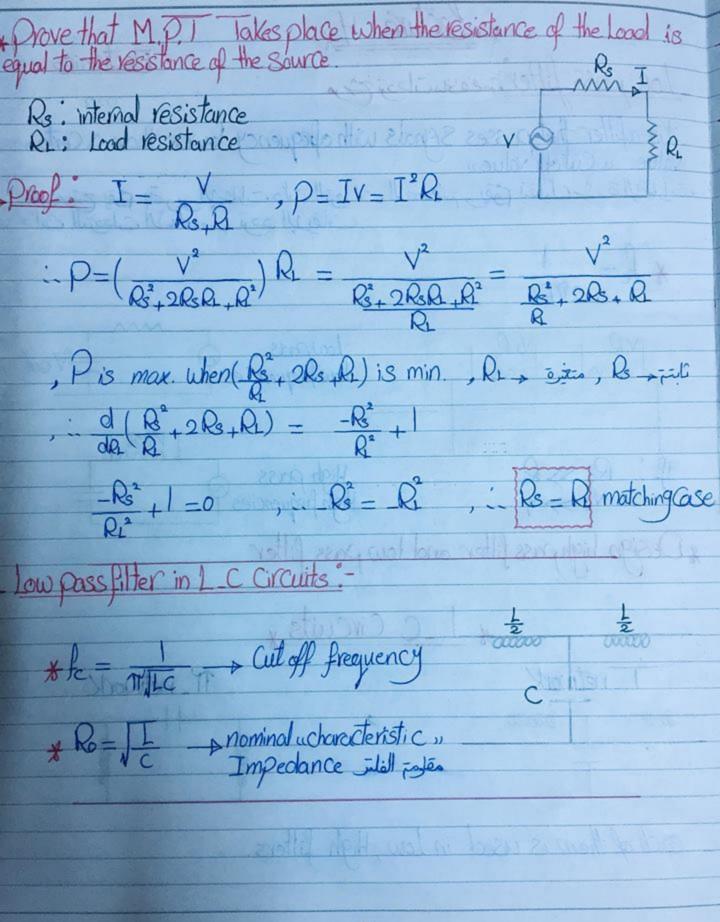
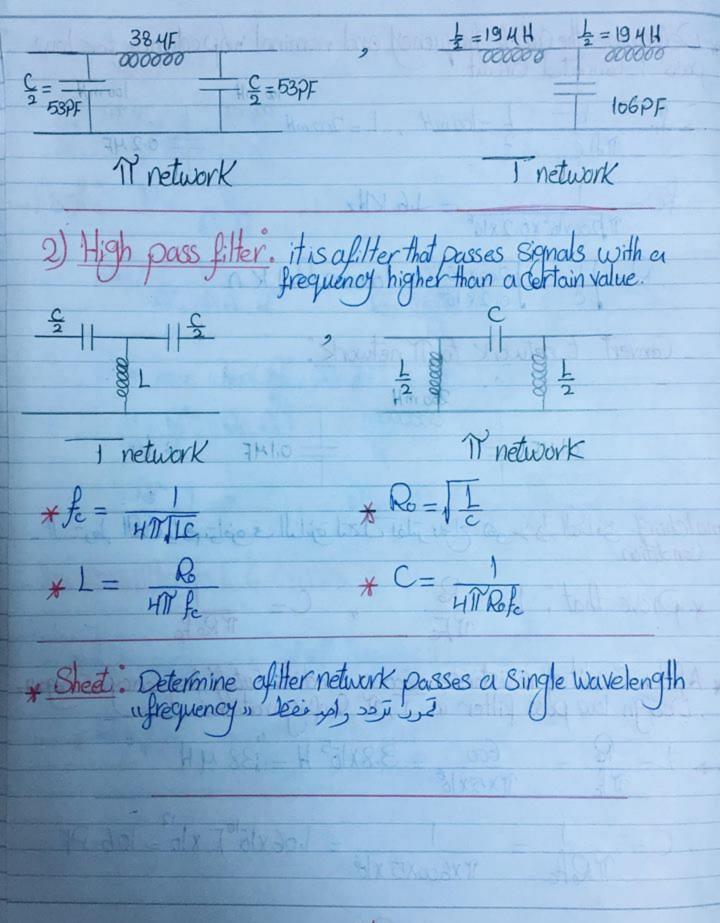
* Lecture 4x Low Pass filter. it is a filter that passes Signals with a frequency lower than a Certain value. « Cut off value»

المعامرة يقى بتمرير الإعالة دات الترودات المتخفضة ريقي بتقليل شرة الإعالة دات الترودات المتخفضة ويقي الترودات المتخفضة ويقى الترودات الترو * /c= TILC 1 V, R, 1 V2 R2 Low frequencies Vout High pass
High frequencies $\mathbb{F}: \mathbb{R}_2 \gg \mathbb{R}$ $: \mathbb{V}_2 \gg \mathbb{V}$ * Design high pass filter and low pass filter. L_C Circuits x T-network each of them is used in Low, High filters. X/X



* Determine the cut off frequency and n	ominal imp	edance for low.
* pass I - Connected Circuit	0.	loo mH
The same of the sa	100 mH	00000
$fc = \frac{1}{N \sqrt{10}}, \frac{1}{2} = 100 \text{ mH}, 1 = 20$	o mH	0.2 MF
TALC	X	miller 1
fc = 1 = 1.6 KHz		
Tr Donylos XO, 2 x los	100 199	1-11-15
$R = \prod_{c} = \frac{200 \times 10^{3}}{0.2 \times 10^{6}} = 1000 - 100$	ati stali	5500 Matt 17
R= L = 200 x 10 = 1000 -	1 = 1 KD	
JC J0:2X10°		2 2
_ Convert t_network to M network	, °	
Convert Chellion a li hemori	-	
200 mH		
000000	-1.15	Vice to 1
O.I.ME	O.IMF	retuark
		1
matching لما التلافق matching للتلافق التلافق	افره في الدائرة	_ الحرط التي بلق بـ
Condition 3 Condition		5 1-2
0-04	0	10A - 1 H
* Prove that: L= Ro	C= 17	0. 9
11/50	Tr.	No JC
A OIL of the Alexanian important of the	and its Cuto	Il frauency = 5 mega H
* Afilter Circuit of nominal impedance of a besign low pass filter in 1, 11	onliquiratio	n V
, Leagn ou pur finer "	10.	
$L = \frac{R}{116} = \frac{600}{11\times5\times16} = 3.8\times1$	$5^{\circ} H = 38$	MH
The TX5x16		
	1-641-10	F x 10 = 106 PF
C = TRefe = MX600X5 X16	= 1.06 X 10	+ x10 = 100 P+
11 Kgtc 11 X60010 X10		
0		
«3»		



«H>»