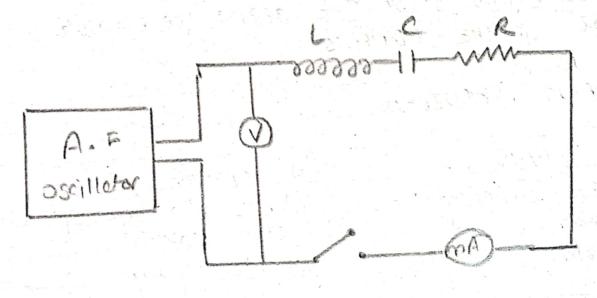
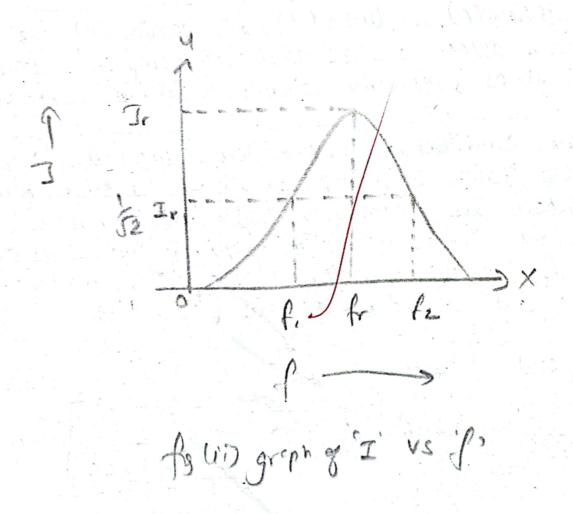
PHYSICS PRACTICAL SHEETS Date: 2078/06 /11 Experiment No.: 3	
Date: 1078/06 /11 Prime CAMPUS Experiment No.: 3	
Class: Bsc-CSIT Group:	
Roll No.: Sub.:	
Chies Marriag	
Rick I for a simont (Block eller)	T 74
TO DESJON AND STUDY THE SERIES [CR FINDING THE GOTE	117
FACTOR OF THE ELEMENTS.	, i
APPARATUS REQUIPED:	
THEFFICE ACCOUNTS.	
1) An inductor v) Copocitor	_
in laises amoultne wire vi) An audio frequency oscillotise	
(10/12 - 10K42)	
iv) Ammeter Vii) One way hay	1111
THEORY:	Thirt
and I would be decomply (c) one	
when the resultan(R), Inductor (L) & copacition (C) are comported in series with a source of amf 'E', The circuit as shown in fig (i).	ιÙ
a colled delles resonance circuit as shown in fig (i)	
Under cestain condition, no voltage and current are connect	حوا
. We had me allered a south of	_
circuit behave as a pure resultor This phonomenon is colle	200
The Action of Single Trendence whom	CAV
frequency (fr). At this frequency, The coperitive reactionse	
(xc = 1) and including reading (xi = WL)	
ore eyed and opposite is we = we = we = LC	_
ore elacy and the	



Ligui Seres LCR circuit



(Tr	a Quality fact	ter of Jerres La	CR Circuit &	girch by:
	i			U
	Q= 271	$-\alpha$		
	f2	-fi]	1	
w	There of 4 of, a	Pre the values	of froquency of	bone & below
the	resonow from	vency for which	the current	in the circust
		where Ji		
i	T2			potting o graph
- T-4x-			7) is frequen	
D	nown in fig. ((1)	JIP/W	74 (7) 35
<u> </u>		11/		
			/	
OBS	ERUATION :			
-	and the second s			
(Induvance (L)=	1.1 mg		
		100-2, 200-2	l 470-2	
				The second second
LC	of voltandor = 0-1	0.22 4F 2	mmete = 0,2	A
260	water Johla for	meosurement	of Chiman	
Marriagnes and records	TV()LGIT	τουική καμ	Carren	
SN	frequency (f)	Cu	ment in mA	
	in KHZ	R,=100-R	Rd= 220 -2	13 = 470 D
1	1	(. 8	1.8	1 0
g	2	3.8	2-8	1-4
3	3	5.2	3,2	1.4
9	4	4.4	2-6	1.6
_	5	3.6	2-4	1-4
5	6		. ,	

		,			
7	7	2.8	2	1.2	
8	8	2.4	1-8	1,2	
. 9	9	2.2	1-6.	1.2	
10	10	2	1-6		
	Na .			•	
CAL	CULATTON) -			1964 L
			į s 💻 .		s to the state of
Frm	ne gra	Eph, we con	see har		·
Resi	nont of	requercy (fr)	1= 3412	1 - 1	
<u></u>	= 1.9 km	, , ,			
,	SKH2				
,					
Nows	1 - E . H.f.				·
, -	Quality	four(Q)=	LTIFE		
	+	and the same of the same	fi-fi		
		2	2 × 3.14 × 3		· ·
			5-	1.9	
		2	6.077		
10 - 11			0,		
		4- 4- 4-			
RESL	117:			V - A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	
		4			1
The	quality	factor of t	re demont of	ICK CICH	it's found to
be	6,077		/	,	
Con	CLUSTON	W 17 0		4.4.	•
B	the ho	10 of graph	, ,	to or of the	elements of
La	circuit	con se fou	nd which is	6.077.	V 1

