Expl. No. S land I

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taperinent of land I

dim + lesign an amplifier for the man gain at 4.00142 using sinde - stub matiring section. Calculate and plat the 2/1 return loss and the gain from 3 to 5 6142.

The Grans FET has following 5- parameters (2=50 12)

1 (6142)	S11	\$21	5 12	5 2 2
3.0	0.80 [-890	2.86 /99°	0-02 256°	0-76 6-410
4-0	6.72/1160	2.60 L76°	0.07 (57°	0.73 6-54°
5.0	6.66/-1420	2.39 (540	0-03 2620	0 72 6-68

substrate Specification >

Ey = 4.4

tan 8 = 0.000/

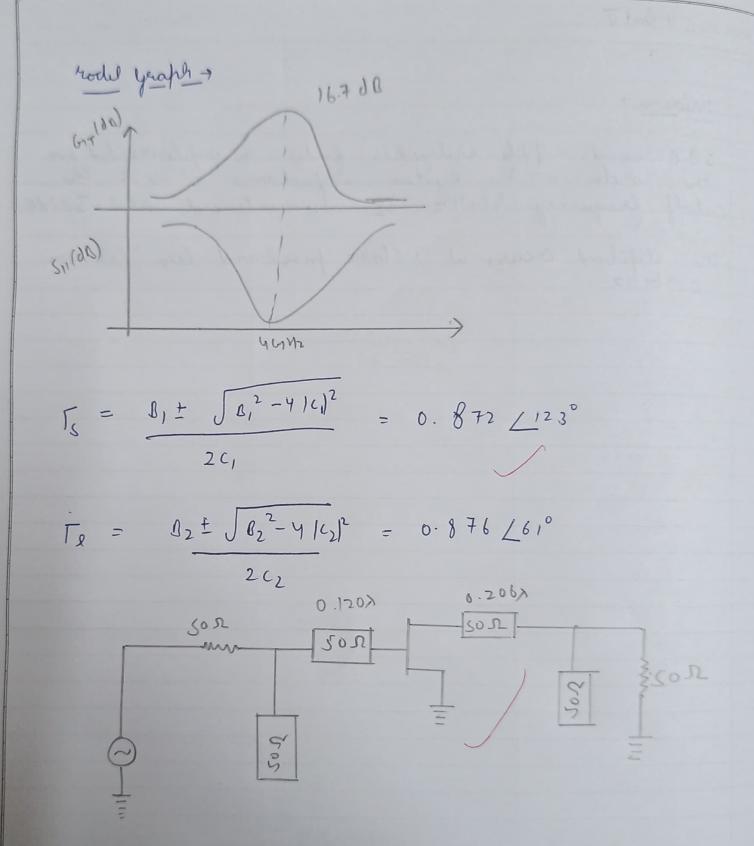
H = 1.6 mm

7 = 0.05 mm

Theoritical your

OT 7 = 16.7 da

Teacher's Signature _



Z		Elabrical (pl) lenger	W(m m)	l (m
Zo = 50 /2	0.120)	5-Ch = 0954021.0	- 7.02825	4.87
Zo=507	0.1207	0.206236 = 74.16	3.02821	18.3

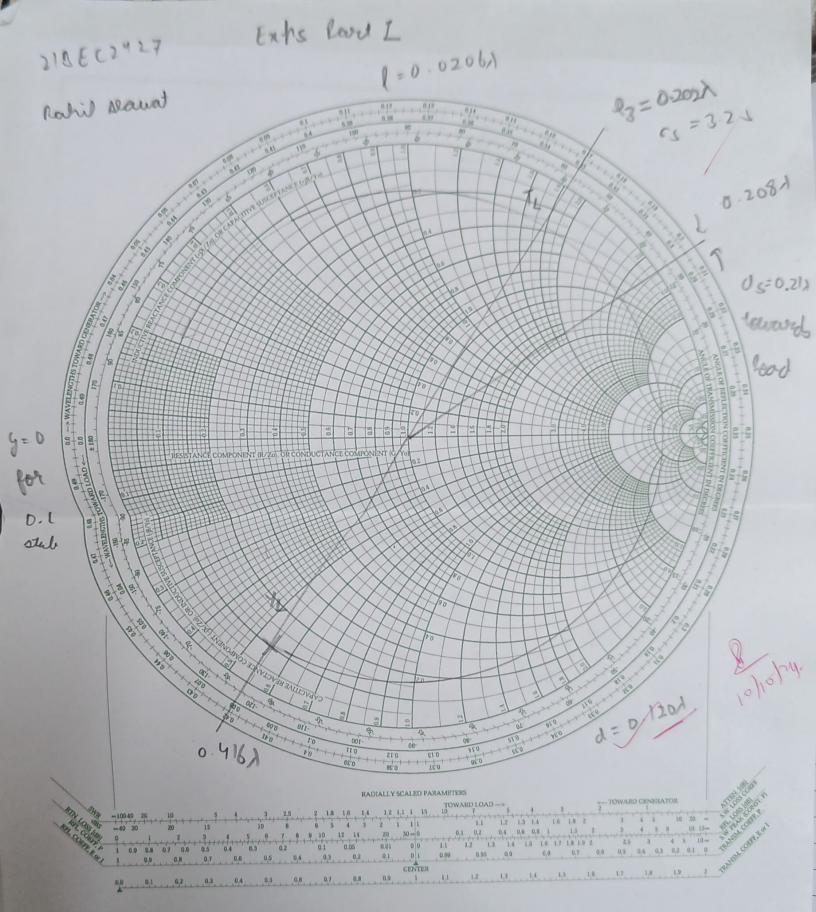
20 0 - 5

THE REAL PROPERTY.

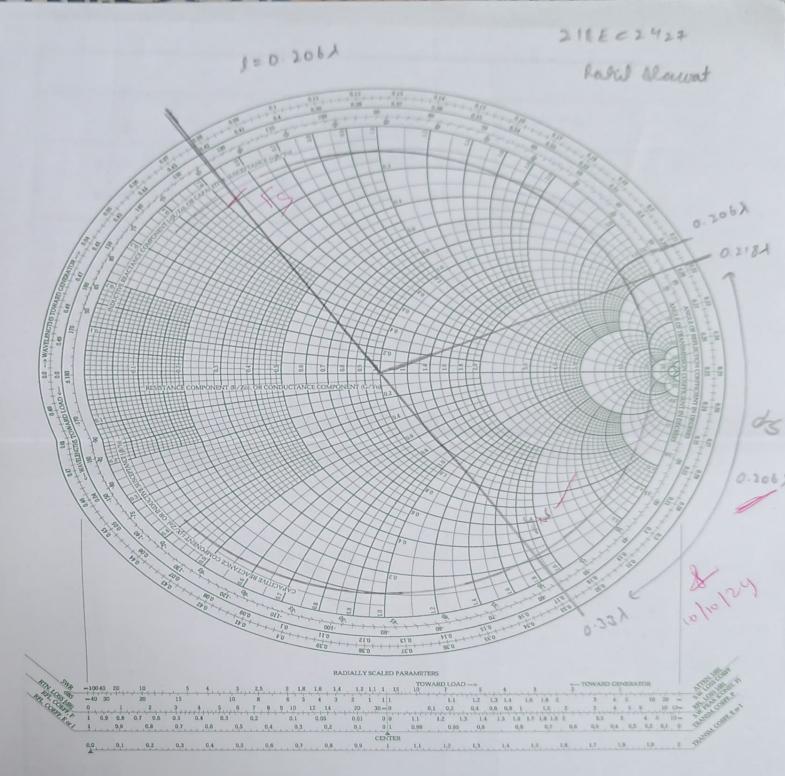
Page No.

Tabular Column +		
Exequency (ups)	00 (15(1,1)1)	08(6,7(1,1)1)
L	1.5834	9.6187
2.5	0-7377	7-2929
2	0.11289	5-4817
2.5	-0.37491	4.4417
3	-0.874 90	4-6 108
3.5	-1.474	7-1838
Ч	- 23.612	16.534
4.5	-0.29543	-11.1011
S	-0.641335	-32.537
63.3	-0.24276	- 14
6-0	-0.71228	-7-2SZS
1 -6-S	- 0-47627	-2.21
7	- 0 34367 Teacher's Sign	2.4637

	Date
Expt	No. a Cout I Page No
	The state of the s
	Inference +
0	in the exemplation.
0	rai lyain of -16. \$34 is obtained at 46142 and the same as verified with -theoretical value of -16.524.
0	Input rathing & off matching are designed using smith should be the same are included in the simulation
	Teacher's Signature



Smith Chart



Smith Chart

