Marking Scheme for ECE320 Lab #3 9/11/2005

[] Indicates the number of marks out of 100.

First report steps 6.1-6.3 for the first cavity that you measured.

6.1 [2] Measured resonant frequency
[2] Measured SWR
[2] Measured physical cavity length
[5] Calculated iris susceptance
[5] State character of B

6.2 [2] Measured maximum impedance magnitude
[2] Compare with (Q/Qe)Z0

6.3 [2] State 3dB impedance level
[2] Measured bandwidth
[2] Measured Q
[5] Calculated Qe
[5] Calculated θ
[2] Compare θ with part 6.1

6.4 Repeat 6.1-6.3 for the second cavity; same marks

6.5 [10] Compare and discuss θ and Qe measured from the two cavities
[10] Find a relation between Δl and Δf and verify it with your results

[4] Presentation and neatness

TOTAL: 100 marks