EE1000
Lab2 – Notebook Point Breakdown

Communications (Keeping a Proper Notebook) 25 Points Total
Written in Ink ................................................................. 4
Student Signed every page 4
Student Dated every page ............................................. 4
TA Signature for every lab session (-3 each session missed) 6
Student's work Reproducible from notebook ......................... 7

C. Derive Equations for $T_p$, $T_n$, and $T_p/T_n$ 20 Points Total
Circuit diagram................................................................. 3
Derive $V_{2p}$, $V_{2n}$ 4
Derive $V_{2p}$, $V_{2n}$ .......................................................... 5
Derive $T_p$, $T_n$, $T_p/T_n$ 6
Consistency check(s).......................................................... 2

D. Design the Circuit 25 Points Total
Calculation of components for $T_p = 1$ s, $T_p = 30$ ms, $T_n = T_p/2$ .............. 4
Matlab program to calculate and plot $T_p/T_n$ versus $R_1$ 8
Matlab program to calculate and plot $T_p$ versus $R_4$ ................................. 8
Calculation of $R_5$ 5

E. Construct and Test the Circuit 25 Points Total
Schematic of circuit constructed; description of results obtained .............. 3
Drawing of oscilloscope waveform of $v_1$ and $v_2$ for $T_p = 30$ ms 4
Drawing of oscilloscope waveform of $v_1$ and $v_0$ for $T_p = 30$ ms .............. 4
Measured values of circuit components 4
Matlab program/plot of measured vs calculated $v_1$, $v_2$, and $v_0$ .............. 10

F. Conclusions 5 Points Total