# ELEC 1100 Laboratory 3: Summary Sheet

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID:

Lab Session (Deadline): LA1 (Wed 14:50) / LA2 (Thu 11:50) / LA3 (Mon 16:20)

**Notes**: (1) Show demo to your TA to have an attendance record; (2) Individually submit your completed Summary Sheet on Canvas before the deadline.

**Tinkercad Simulation Links (for online lab)**

|  |  |
| --- | --- |
| **Simulation 1:** |  |
| **Simulation 2:** |  |
| **Simulation 3:** |  |

**Experimental Results and Analysis**

Q1: With the formulae given below, what should be the theoretical (calculated) frequency and duty cycle of the pulse signal generated? (Show your calculation)

**Clock High Time =** 0.7 (*RA* + *RB*) *C1*

**Clock Low Time =** 0.7 (*RB*) *C1*

**Period =** 0.7 (*RA* + 2*RB*) *C1*

Q2: What is the difference between the waveforms? (Indicate the function 74HC14)