**Prelab-7 Worksheet**

**Circuit Analysis – I**

|  |  |
| --- | --- |
| Student Name(s): |  |
| Student ID(s): |  |

**Task 1:**

Show your complete step-by-step theoretical calculations for Task 1 here:

|  |
| --- |
|  |

**Table 1: Theoretical Calculations and LTspice Simulation Values**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Calculated Values** |  |  |  |
| **LTspice Values** |  |  |  |

**Task 2a:**

**LTspice Simulation Screenshot:** Design Validation (place your screenshot below)

**Prelab-7 Submission Requirements:**

* Convert/save this Prelab-7 Worksheet **as a .pdf file** with a filename as follows:

**If Prelab is done individually:** “Prelab-7\_FirstName\_LastName.pdf”.

**If Prelab is done in a group:** If you have been explicitly instructed by your lab instructor to perform the Prelab exercises in a group, then save this Prelab-7 Worksheet **as a .pdf file** with a filename following the convention below:

Let’s consider that two students are doing the prelab in a group. Then the filename should be: “Prelab-7\_FirstName of Student 1\_FirstName of Student 2.pdf”. For example, if name of the two students are Tom Cruz and Morgan Freeman, respectively, then the Prelab-7 Worksheet file should have the following name: “Prelab-7\_Tom\_Morgan.pdf”. Similar file naming convention should be followed to properly name your LTspice schematic file. Improperly named files may be subject to point deductions.

* **Prelab Submission Checklist:** There should be four files submitted for your Prelab-7 assignment. The Prelab-7 Worksheet (.pdf) and three LTspice schematic files (.asc).
* Check with your lab instructor about specific instructions on how to submit your Prelab files for assessment and grading.

**Prelab Score:** This prelab contributes to 30 points toward Lab 7 (each Task in the Prelab is worth 10 points). In-lab hands-on work will contribute to 70 points (Lab 7 total is 100 points).