EEE 120

Add\_Sub Extra Credit Problem’s Answer Sheet

A 4-Option 4-Bit Add/Sub Circuit

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solution**

Copy and paste your design circuit here. It could be a handwritten circuit or a circuit you built on the Digital software. There are some points dedicated for implementing your circuit on Digital software.

Note: the Add/Sub circuit has data inputs A0, A1, A2, A3 and B0, B1, B2, B3, and control inputs SA,

SB. The outputs are S0, S1, S2, S3 and the overflow bit OF indicating an overflow.

Add\_Sub Extra Credit: Grade Sheet

|  |  |
| --- | --- |
| **Name:** |  |

## Instructor Assessment

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| --- | --- | --- |
| **Grading Criteria** | **Max Points** | **Points Lost** |
| **Description of Assigned Tasks, Work Performed & Outcomes Met** |  |  |
| Circuit overcomes taking the 2’s complement in scenario 3 | 3 |  |
| Circuit overcomes taking the 2’s complement in scenario 4 | 3 |  |
| Student implemented a working design on software | 4 |  |
|  | **Points Lost** |  |
| Report Score (10) | **Total Score** |  |
|  |