Instructions:

* Replace the highlighted areas in yellow above with your own name, section and group numbers and correct dates,
* Watch the corresponding lab demo videos, review related materials in lecture notes, lab manual and other related documents,
* Provide your best answers to the following questions. Add pages as needed,
* Convert this Word answer sheet into pdf format and submit to Canvas.

1. (10 points) You were introduced to the concept of calibration. Provide your own account what it is in general.
2. Continuing from Question 1, we will perform a calibration procedure in this lab. Again, in your own words, describe how it is done (5 pts), explain how does it work (5 pts) and how will it be used in this lab (5 pts).
3. We will measure two sets of strain data for tensile test in this lab. What are the sources (2 pts)? Describe the experimental procedures to obtain either data set (8 pts).
4. Continuing from Question 3, which one of the two sets of strain data should be more accurate (2 pts)? Based on what you have studied about this lab, explain why (8pts).
5. (5 pts) Define “gage length” in the tensile test.

Total 50 points

Answers: