How many questions did you complete (a completed question means that all the sub parts were done)? Write your answer as a fraction of the total number of questions on the very top of your assignment: Example 10/17

Please answer all questions. Remember this assignment is worth 15/4% and is your second assignment for the course. All statistical computing is to be done in **R**, please note that **MS**=Mendenhall and Sincich, STATISTICS for science and engineering 6th edition.

Use RMD and then knit into a HTML. Upload the latest addition of both files to CANVAS before the due date.

PLEASE NOTE: IF THERE IS NO REQUIREMENT TO USE R THEN DON'T USE IT.

Place the following files on CANVAS

- 1. RMD document
- 2. HTML document

All mathematical notation should be done in Latex inside R markdown.

## ALL WORKING MUST BE SHOWN IN ORDER TO GET THE FULL MARK VALUE!!

- 1. [3 marks] MS 3.36 pg 105-106
- 2. [3 marks] MS 3.52 pg 111
- 3. [1 marks] MS Theorem 3.1 pg 113 Prove the theorem in your own words.
- 4. [1 marks] MS Theorem 3.2 pg 114 Prove the theorem in your own words.

- 5. [1 marks] MS Theorem 3.3 pg 116 Prove the theorem in your own words.
- 6. [1 marks] MS Theorem 3.4 pg 117 Prove the theorem in your own words.
- 7. [3 marks] MS 4.2 pg 138
- 8. [4 marks] MS 4.12 pg 143
- 9. [4 marks] MS 4.34 pg 154
- 10. [2 marks] MS 4.46 pg 158
- 11. [2 marks] MS 4.54 pg 162
- 12. [2 marks] MS 4.66 pg 168
- 13. [3 marks] MS 4.78 pg 173
- 14. [4 marks] MS 5.2 pg 191
- 15. [3 marks] MS 5.10 pg 196
- 16. [3 marks] MS 5.36 pg 205
- 17. [5 marks] MS 5.38- pg 205