Answer’s for Lab 5 – Correlations (5 marks)

Student name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Chance correlations (1 mark)

½ a mark for correlation matrix (table)

½ a mark for stating which pair is most strongly correlated

Your Correlation Matrix goes here (1/2 mark)

According to your correlation matrix, which pair of variables is most strongly correlated? (1/2 mark)

You can also fill in part of the table below.

# Chance correlations with a larger sample (1 mark)

½ a mark for correlation matrix (table)

½ a mark for stating which pair is most strongly correlated

Your Correlation Matrix goes here (1/2 mark)

According to your correlation matrix, which pair of variables is most strongly correlated? (1/2 mark)

You can also fill in the rest of the table below.

# Table to summarize measured correlations (3 marks)

*1 mark for table and 2 marks for written answer.*

|  |  |  |
| --- | --- | --- |
| **summary of 21 comparisons** | **N = 10** | **N = 100** |
| minimum of all correlations |  |  |
| maximum of all correlations |  |  |
| range |  |  |

**Short answer question (2 marks)**

With reference to your table, explain why larger sample sizes are better.