**BF[1] – Why We Do It Quiz Cortland Watson**

1. What are two reasons for choosing factorial treatment structure (2 pts)?

Study the effects of two or more sets of conditions in a single experiment.

To study how sets of conditions interact

1. When are two sets of treatments crossed (2 pts)?

We choose factorial crossing and the two way design if all possible combinations of treatments occur in the design. It has a factorial treatment design.

1. What are a list of items that you do to perform the two-way completely randomized experiment (2 pts)?

Cross two basic treatment factors.

Assign the combinations are random.

Assign each combination to the same number of units/participants.

If you want to measure interaction in a two-way design, you have to have more than one observation per cell.

1. What are the three structural factors in a two-way BF design (2 pts)?

First treatment Factor.

Second treatment Factor.

Interaction.

1. What are three essential pieces to the structure of interaction (2 pts)?

Two crossed factors and a response. There is an interaction present when the effect of one factor varies depending on the level of the other factor present.