CS381/780 Data Analytic Review Quiz 4

Instruction: For multiple choice questions, clearly circle one of the choice; for all other questions, write your answer right below the questions. All questions carry the same weights.

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Question 1: Which of the following statements is/are true about Type-1 and Type-2 errors?

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1. Type-1 error occurs when we rejects a null hypothesis when it is actually true
2. Type-2 error occurs when the prediction is positive while the actual case is
negative
3. Type-2 error means the prediction is wrong from the actual case
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A. Only 1   **Type 2 is specific to false negative, that is only for the case where**
                   the prediction is negative and the prediction is WRONG
B. Only 2
C. 1 and 2
D. 1 and 3
E. 2 and 3

Question 2: If two variables depends on each other, their correlation cannot be zero because there are some dependence of one on the other (even though the effect may be small)

A. True
B. False   **Correlation can be zero for variables**
                  that depend on one another.

Question 3: What are the pro and cons of using deletion (ie dropping the data row) for fixing missing values?

Pros:
1. It's easier to handle the data
2. Removes incomplete data.
Cons:
1. May create systematic bias.
2. May only be used when we have enough data otherwise.