

BIOS 600 · Quiz 11.1: ANOVA

8 November 2011

1. **Honor Pledge:** I have neither given nor received unauthorized aid on this assignment.
(Sign and print your name.)

2. Investigator C. Sandiego wishes to find whether banks of certain countries have more money in their vaults. She inspects the vaults of several banks from several countries. Below are the results (in \$ millions):

USA	11, 13, 9, 7
Switzerland	15, 20, 22, 23
Ecuador	4, 1, 2, 5

(a) Fill in the missing values of the ANOVA table.

Source	DF	SS	MS	F value
Country		584		
Residuals		68		

(b) What is the alternative hypothesis? (You may express in words or symbols.)

(c) What is the reference distribution of the test statistic? (Include specific values for the distributional parameters.)

3. What problem does a multiple comparison correction — like Bonferroni or Tukey–Kramer — try to correct?