

BIOS 600 · Quiz 6.1: Measures of Association

4 October 2011

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

2. Calculate the correlation of X and Y. The table is provided for your convenience; you are not required to use it. Remember

$$r = \frac{n \sum X_i Y_i - (\sum X_i)(\sum Y_i)}{\sqrt{[n \sum X_i^2 - (\sum X_i)^2][n \sum Y_i^2 - (\sum Y_i)^2]}}$$

X_i	Y_i	$X_i Y_i$	X_i^2	Y_i^2
2	1			
3	3			
4	2			
5	4			

3. How does the correlation change when the Xs are doubled? (Circle one.)

- (a) It goes up
- (b) It goes down
- (c) It stays the same