**Statistical Data Mining I**

**Concept Quiz III**

1. TRUE of FALSE  
   In Partial Least Squares, the response variable Y, influences the calculation of the components.
2. TRUE of FALSE  
   In Principal Components, the response variable Y, influences the calculation of the components.
3. TRUE of FALSE  
   Principal Components and Partial Least Squares aim to (1) reduce dimensionality and (2) de-correlate variables.
4. What is “masking” in classification?
5. Suppose you have a four-level categorical response variable, Y, with categories {A,B,C,D}, and are asked to build a classifier. **Briefly, why is it not a good idea** to encode the variable as numeric {1,2,3,4} and frame the problem as a regression?