Quiz #1  
AVS 305  
September 1, 1999

1. What component of a plant decreases its digestibility? (1 point)
   Lignin

2. All food energy in day-to-day living originates from where through what reaction? (2 points)
   Protein through digestion of high protein food sources and carbohydrates from the sun through photosynthesis.

3. Animal feeds that are high in energy content and low in fiber are generally called what? Give an example. (2 points)
   Concentrates (The leaf of a plant such as alfalfa leaves (not stems, they are high in fiber.)

4. What is measured in the laboratory in order to determine the crude protein content of a feed? (1 point)
   Nitrogen

5. What is in ether extract? (1 points)
   Fat

6. State one way in which heat treatment can improve AND reduce the nutritive value of feeds. (2 points)
   Heat treatment decreases water content, reduce the nutritive value. It also makes other nutrients more accessible to the animal. 
   dry matter, improve gets rid of trypsin inhibitors, reduce bird protein to carbs -> indigestible.

7. If you have 10 pounds of feed and the feed is 50% dry matter, how much dry matter do you have? (1 points)
   5 lbs