Quiz #3
AVS 305
September 15, 1999

1. What property of water is important is the regulation of body temperature? (1 point)
   - high specificity of heat

2. What is the relationship between total body water content and body fat content? (1 point)
   - The more fat in the body, the less water in the body.

3. How does environmental temperature affect water consumption? (1 point)
   - The higher the temperature, the more water consumption, more water is used through evaporation to rid the animal of heat.

4. What is meant by the term "metabolic water"? (1 point)
   - Water produced when an animal is breaking down substances for nutrition. Break down food into CO2 + H2O, for metabolism.

5. What is the greatest source of metabolic water? (1 point)
   - Digestion of nutrients - small intestine.

6. What is a pregastric fermentor? Give an example of one. (2 points)
   - An animal that ferments its feed before the nutrients are absorbed - the food is fermented in the rumen - cow.

7. Where, specifically, does the majority of fermentation occur in the horse? (1 point)
   - Fermentation occurs in the small intestine (specify) - colon.

8. Draw a figure demonstrating the relationship between digestibility and lignin content. (1 point)

9. Give a criterion of animal performance based on feed utilization. (1 point)
   - An animal must be able to maintain itself with feed utilization. An animal is utilized when there is growth, production of milk, milk, or even muscle.