**Nutrition**

1. Because goats are ruminant animals, they can digest \_\_\_\_\_\_\_\_\_\_\_\_\_.
2. How many stomach compartments does a goat have? \_\_\_\_\_\_\_
3. The rumen is the first and the \_\_\_\_\_\_\_\_\_\_\_\_ compartment of the goat’s digestive system. The rumen acts as a large \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vat which \_\_\_\_\_\_ and stirs up the food. The rumen can hold about 6 \_\_\_\_\_\_\_\_\_\_\_ of material.
4. Explain how the rumen converts feed. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Match the following:

\_\_\_\_ Rumen A. Produce and secret digestive enzymes and acids

\_\_\_\_ Reticulum B. Regurgitation of food for rechewing

\_\_\_\_ Omasum C. Catches large particles of feed for further digestion

\_\_\_\_ Abomasum D. Squeeze and absorb water from the feed

\_\_\_\_ Rumination E. Mixes/stores, serves as fermentation vat

1. What is the most important nutrient needed to survive?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and how much of a goat’s body is composed of this nutrient? \_\_\_\_\_\_ - \_\_\_\_\_\_ %
2. Explain the importance of protein in a goat’s diet. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. A 100 pound goat that is not producing milk consumes about \_\_\_\_\_\_\_\_ of water per day.
4. A kid’s resistance to disease is influenced by the quality of \_\_\_\_\_\_\_\_\_\_.
5. What is the ideal time to wean a kid from its mother? \_\_\_\_\_\_\_\_\_\_\_\_\_
6. What is the most common means of providing forage for goats? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Match the mineral with its function and deficiency sign.

**Mineral Functions and Deficiency Signs**

1. Co-factor for major enzymatic reaction
2. Rickets in growing animals
3. Decreased intake, weight loss, reduced milk yield
4. Reduced animal performance and reduced fiber digestion
5. Helps to transport material across cell walls
6. Muscular activity; osmotic pressure of body fluid
7. Muscle contraction, proper skeletal structure, and milk production
8. Eating anything containing salt, lack of appetite
9. Required by rumen microbes for fiber digestion
10. Grass tetany or staggers

Function Deficiency

 Sign

\_\_\_\_\_ Calcium \_\_\_\_\_

\_\_\_\_\_ Magnesium \_\_\_\_\_

\_\_\_\_\_ Potassium \_\_\_\_\_

\_\_\_\_\_ Salt \_\_\_\_\_

\_\_\_\_\_ Sulfur \_\_\_\_\_

1. Identify each part of the ruminant digestive system.

8

7

6

5

4

3

2

1

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_