Final Exam Study Guide Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer the following questions to help prepare yourself for the final exam. Work through the packet as a group. Copying every answer from your teammates will *not* help you prepare for the final.

Design a simple experiment using all the steps of the scientific method in order.

Soil has many properties that we discussed. What are the three soil particle sizes? What else is part of the soil?

Six factors determine the capacity of a country to produce food. What are these six factors?

IPM stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. What are the four control methods in an IPM program?

Describe how the digestive system of a cow is different from that of a human. What allows cows to digest grass?

Some insects live together in large colonies with different jobs assigned to different members, and have overlapping generations. What is this called?

Insects have three body segments. What are they?

Wildlife habitats are required to maintain a healthy ecosystem for animals and plants alike. What are the 5 components of a wildlife habitat and how does fragmentation affect wildlife? Give an example.

Compare and contrast forests and grasslands:

What are three ways flowers attract pollinators?

In taxonomy, we classify living things and assign them names. How do we classify living things? What are the different levels of classification? What is the proper way to write a scientific name?

What are four different major pollinators?

Plants require different nutrients to grow. What are the main three (primary) nutrients needed by plants and how do we provide them to the plants?

What is the equation for photosynthesis? Write it 3 times.

Compare an open canopy and a closed canopy forest.

Are animals efficient to raise? What are three resources it takes a lot of to raise cattle.

Compare and contrast xylem and phloem.

Engel’s law states what?

What is the main pigment that allows plants to absorb light?

What do stomata do?

Animals have many body systems that they use to sustain life. Pick one and describe all the organs and their functions.

What are three major issues in agriculture today?

What is domestication? What factors made it possible to domesticate some animals and not others?

Pick a topic we covered in class and write at least 10 sentences about it below.