Biology Semester Test Study Guide

1. What are the steps in the scientific method?
2. What is the difference between a control setup and an experimental setup?
3. What are the basic units of length, mass, volume, and temperature in the metric system?
4. What are 3 – 5 rules to follow when working in the laboratory?
5. Why is planet Earth often described as a spaceship?
6. What are the characteristics of living things?
7. What is homeostasis?
8. What are the divisions of Biology?
9. Define chemical property and physical property.
10. What is the basic unit of matter?
11. What is an element? What is a compound?
12. What are ionic bonds? What are covalent bonds?
13. What are the three parts of the cell theory?
14. What are the three basic parts of the cell?
15. How do prokaryotes and eukaryotes differ?
16. How does diffusion and osmosis move materials into and out of the cell?
17. What is photosynthesis?
18. What is respiration?
19. What are the phases of Mitosis?
20. Why is Gregor Mendel sometimes called the “father of genetics”?