BIOLOGY REVIEW WORKSHEET - 1st Nine Weeks

Directions: Using your notes and text book, complete the following questions and diagrams.

I. Studying Biology

1. List the characteristics of living things and explain why a virus is not considered a living

 thing.

2. Define Homeostasis and give an example of this in the human body.

3. What is the difference between an inorganic and an organic compound? Give examples of

 each

4. List the 4 types of organic compounds found in living things. Give examples of each.

5. Define the following terms:

a. Monomer-

b. Polymer

6. Complete the following chart:

 Organic Compound Monomer Polymer Use in the cell

 Carbohydrate

 Lipid

 Nucleic Acid

 Protein

7. What is Activation Energy?

8. What is an enzyme and how is it affected by temperature and pH?

II. Cells

9. What is the difference between a prokaryote and a eukaryote? Give examples of each

10.Draw and label a typical animal cell below. Make sure to diagram the following cell parts:

 Cell membrane, nucleus, cytoplasm, nucleolus, ribosome, endoplasmic reticulum,

 golgi apparatus, lysosome, vacuole (vesicles), mitochondria.

11. How are chloroplasts and mitochondria similar? How are they different?

III. Movement through the Membrane

12. What is diffusion?

13. What is osmosis?

14. Define Passive Transport

15. Define Active Transport.

 a. Define Endocytosis

 b. Define Exocytosis

VI. Energy and Life

16. What is ATP?

17. What is the equation for photosynthesis?

18. What organelle does photosynthesis take place in? W hat kinds of cells perform

 photosynthesis?

19. What is a pigment? What pigment is found in green plants?

V. Cellular Respiration

20. W hat is equation for cellular respiration?

21. What organelle does cellular respiration take place in? What kinds of cells use

 cellular respiration?