### Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_ Mods: \_\_\_\_

### 1.5 Principles of Biology Practice

**Q 1-8 TRUE/FALSE:**

1. Living cells never come from other living cells.
2. Chromosomes are located in larger structures called genes.
3. A characteristic that helps living things survive and reproduce in a given environment is called as an adaptation.
4. Genes are segments of DNA that tells our cells what to do.
5. Cell theory states that tissues are the basic structural units of all organisms.
6. The disappearance of all the members of a species is called extinction.
7. “Evolution” is a change in species over time.
8. Based on scientific evidence, first life on Earth was likely unicellular
9. The molecules of \_\_\_\_\_ are encoded with instructions that tell cells what to do.
   1. Cell membranes
   2. Cell walls
   3. DNA
   4. Mitochondria
10. \_\_\_\_\_ developed the modern theory of evolution by natural selection.
    1. James Watson
    2. Gregor Mendel
    3. Charles Darwin
    4. Albert Einstein
11. A theory stating that the characteristics of organisms are controlled by genes passed from parents to offspring is \_\_\_\_\_.
    1. Cell theory
    2. Gene theory
    3. Both A and B
    4. None of the above
12. Which unifying principle forms the basis of biology?
    1. Cell theory
    2. Gene theory
    3. Homeostasis and evolution
    4. All of the above
13. The smallest unit of heredity of living organisms is called a \_\_\_\_\_.
    1. Nucleotide
    2. Protein
    3. Gene
    4. Cell
14. Coiled structures made of DNA and proteins are called \_\_\_\_\_.
    1. Ribosomes
    2. Chromosomes
    3. Lysosomes
    4. None of the above
15. Chromosomes are made of large molecules known as \_\_\_\_\_.
    1. Viruses
    2. Lacunae
    3. DNA
    4. Mitochondria

16. How is gene theory related to the theory of evolution?

17. How are genes related to chromosomes?