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CHAPTER 1 – INTRODUCTION TO BIOLOGY

1. To camouflage, an arctic rabbit changes its fur color from brown in the fall to white in the winter. What property of life is this?
   1. Order
   2. Reproduction
   3. Evolutionary adaptation
   4. Energy processing
2. A caterpillar feeding is an example of which property of life:
   1. Order
   2. Reproduction
   3. Evolutionary adaptation
   4. Energy processing
3. Sweating as a response to being in a hot environment is an example of:
   1. Sensitivity
   2. Order
   3. Homeostasis
   4. Evolution
4. What is the correct order of the biological levels from the simplest to the most complex?
   1. Tissue, cell, organ, molecule
   2. Cell, tissue, organ, organ system
   3. Molecule, organelle, cell, organs
   4. Molecule, organ, cell, tissue
5. The main difference between prokaryotic and eukaryotic cells is:
   1. Prokaryotic cells have nucleus, but eukaryotic cells not
   2. Prokaryotic cells do not have nucleus, but eukaryotic cells have
   3. Prokaryotic cells have no DNA, but eukaryotic cells have
   4. Prokaryotic cells have DNA, but eukaryotic cells do not
6. Human beings are part of which Domain:
   1. Bacteria
   2. Archaea
   3. Eukarya
   4. Prokarya
7. Mushrooms are part of which Kingdom:
   1. Protists
   2. Plantae
   3. Fungi
   4. Animalia
8. The scientist that developed the theory of evolution is:
   1. Sir George Bacon
   2. Charles Darwin
   3. Franklin
   4. Einstein
9. One of the mechanisms of evolution is:
   1. Natural selection
   2. Overproduction of offspring
   3. Fossilization
   4. Intelligent design
10. Which statement does not support the theory of evolution:
    1. Individuals should be different
    2. Differences should be inherited
    3. Differences should allow for survival
    4. Differences are not important for reproduction
11. Which feature is not related to natural selection:
    1. Body building
    2. Same fur color as the environment
    3. New beak shape
    4. Differences in giraffes neck length
12. The relationship between science and technology is:
    1. there is no connection
    2. Interdependent
    3. They depend on the future
    4. Inverse proportional
13. What is the first step of the scientific method:
    1. Hypothesis
    2. Observation
    3. Question
    4. Results
14. In your experiment, you recorded the colors of the flowers studied. This is what type of data:
    1. Qualitative
    2. Quantitative
    3. Measurable
    4. Control
15. You are testing the hypothesis that corn syrup promotes obesity. The control group is:
    1. People eating chocolate
    2. People eating corn syrup
    3. People not being fed corn syrup
    4. People with hormonal problems
16. Choose the statement that is a hypothesis:
    1. The flashlight doesn’t work
    2. Why the flashlight doesn’t work
    3. The flashlight doesn’t work because the batteries are dead
    4. Replacing the batteries will fix the problem.
17. Choose the statement that is a prediction:
    1. The flashlight doesn’t work
    2. Why the flashlight doesn’t work
    3. The flashlight doesn’t work because the batteries are dead
    4. Replacing the batteries will fix the problem.
18. A theory is:
    1. A hypothesis that needs to be tested
    2. A hypothesis
    3. A hypothesis that has been tested
    4. A null hypothesis
19. Inductive reasoning is:
    1. Drawing a conclusion
    2. Designing an experiment
    3. Writing a hypothesis
    4. Making a prediction
20. Deductive reasoning is:
    1. Drawing a conclusion
    2. Designing an experiment
    3. Writing a hypothesis
    4. Making a prediction