Unit B Chapter 1 HW Review Question Answers

Chapter 1

Section 1

1. Fossils show signs of life as it existed millions of years ago
2. Unicellular organisms contributed to Earth’s atmosphere , which did not always contain the oxygen it does now
3. Extinction occurs when the last member of a species dies. Permian Extinction => about 90 percent of ocean life became extinct. Cretaceous Extinction => poor dinosaurs died
4. Absolute dating tells when fossils were formed. Relative dating compares the ages of fossils. Absolute dating cannot be used on all fossils, so the two methods combined given an accurate picture
5. Unicellular, multicellular organisms, life in the oceans and then life moving to land
6. Answers will vary

Section 2

1. Lamarck believed an individual organism passed traits on to its offspring. He lacked support for his ideas. Darwin showed how traits could be passed on by natural selection
2. Darwin noticed that beak shapes and sizes differed among the finches. This led him to believe that the finches evolved differently.
3. Isolation stops populations from interbreeding so new species evolve
4. The third species most likely evolved from one of the two other species. Isolated by mountains, it began to develop its own unique characteristics.
5. White fur; it will help the hare blend in, escaping predators

Section 3

1. Possible answer: A theory is based on observations and testing
2. Darwin used fossil evidence to support his theory of evolution
3. Three types of evidence are fossil evidence, biological evidence, and genetic evidence.
4. A scientific theory is based on scientific evidence. It is a widely accepted statement. It is used to predict and explain natural phenomena. Based on his research, Darwin’s theory of evolution has become a widely accepted statement.
5. The two species would most likely be related if they shared a similar sequence of bases.