

## Biology – Chapter 15 Assessment Answers and Standardized Test Prep Answers

### 15.1 Assessment

1a. Corn was produced from selectively bred teosinte

1b. You would look for reddish petals and shorter stems. You would select plants with shorter stems and plants with red pigment in their flowers for crossing.

2a. The more mutations, the greater the genetic variation.

2b. With radiation and chemicals

2c. Biotechnology is the application of a technological process to living organisms. Since selective breeding is a technological process that helps humans breed organisms with desired traits, it is a form of biotechnology.

### 15.2 Assessment

1a. The first step is to heat the DNA, which separates its two strands. Then, as the DNA cools, primers bind to the single strands. Next, DNA polymerase starts copying the region between the primers. These copies can serve as templates to make more copies.

1b. Knowing the sequence allows scientists to find individual genes.

2a. To change the genetic composition of living organisms and investigate the structure and function of genes.

2b. In computer programming, a programmer writes a program that produces a specific output. In genetic engineering, a scientists engineers genes to produce desired gene products.

3a. An organism that contains genes from other species.

3b. Transforming a plant cell can involve the use of *Agrobacterium* to introduce bacterial DNA into the plant cell. Also, if plant cell walls are removed, plant cells in culture will sometimes take up DNA on their own. Scientists can transform animal cells using some of the same techniques used to transform plant cells. Transforming animal cells can also involve injecting DNA directly into an animal cell nucleus or using specially designed DNA molecules.

### 15.3 Assessment

1a. Plants: higher yields, resistance to herbicides; animals: increased milk production, leaner meat

1b. If genetically modified fish were introduced into an aquaculture facility, the fish populations might cross breed and produce offspring with new characteristics.

2a. Preventing disease, medical research, treating disease

# Enviornmental Science Ch 15 Standerized Test Prep Answer Key

**Jiyuan Zhang**



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