

Name _____ Period _____

Chapter 20: Biotechnology

The AP Biology exam has reached into this chapter for essay questions on a regular basis over the past 15 years. Student responses show that biotechnology is a difficult topic. This chapter requires a strong conceptual understanding of the technological processes and the underlying biology that guides the procedure. With a little careful work, this chapter will give you insights into the incredible advancements already made and a basis for understanding the new marvels yet to be discovered in biotechnology.

Overview

1. It is important to understand the meaning of the three terms in bold to start this chapter.

recombinant DNA

biotechnology

genetic engineering

Concept 20.1 DNA cloning yields multiple copies of a gene or other DNA segment

2. Plasmids are important in biotechnology. Give a full and complete definition of *plasmid*.

3. The production of multiple copies of a single gene is called _____.

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