

Campbell's Biology: Concepts and Connections, 7e (Reece et al.)
Chapter 12 DNA Technology and Genomics

12.1 Multiple-Choice Questions

1) Biotechnology

- A) is a modern scientific discipline that has existed for only a few decades.
- B) is strictly concerned with the manipulation of DNA.
- C) has been around since the dawn of civilization.
- D) is generally considered more harmful than valuable to society.

Answer: C

Topic: 12.1

Skill: Knowledge/Comprehension

2) When DNA from two sources is combined into one single piece of DNA, it is known as

- A) cloned DNA.
- B) recombinant DNA.
- C) a vector 載體
- D) a plasmid.

Answer: B

Topic: 12.1

Skill: Knowledge/Comprehension

3) The production of multiple identical copies of gene-sized pieces of DNA defines

- A) gene cloning.
- B) plasmid transformation.
- C) clonal selection.
- D) tissue culturing.

Answer: A

Topic: 12.1

Skill: Knowledge/Comprehension

4) In the process of human gene cloning using plasmids, the bacterial plasmid

- A) functions as a vector.
- B) is the source of the gene to be cloned.
- C) is cultured inside the human cell, which contains the gene to be cloned.
- D) is used to insert the human gene into the bacterial chromosome.

Answer: A

Topic: 12.1

Skill: Knowledge/Comprehension

5) DNA ligase binds

- A) exons together.
- B) polymerase to the promoter.
- C) nucleotides together.
- D) an intron to an exon.

Answer: C

Topic: 12.1

Skill: Knowledge/Comprehension

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