

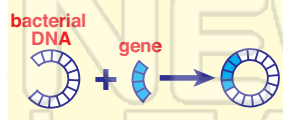


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Using **special enzymes**, scientists successfully removed the gene that controls the production of interferon and **inserted this gene** into the **DNA of certain bacteria**. These bacteria can now produce interferon. This **technique** is known as \_\_\_\_\_.

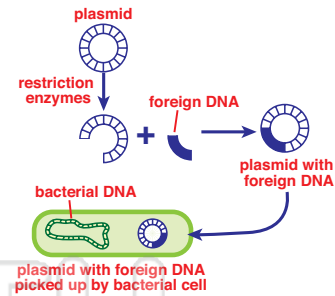
Circle the answer letter.

- a. amniocentesis
- b. genetic engineering
- c. karyotyping



6 What **substances** could be **produced** using the **biotechnology technique** shown?

- a. DNA and RNA
- b. inorganic chemicals
- c. insulin and human hormones



2 This diagram represents a portion of a **nucleic acid molecule**. The part indicated by **arrow X** could be \_\_\_\_\_.



3 Which of the following is **not** a **characteristic** of a **prokaryotic cell**?



## PREVIEW

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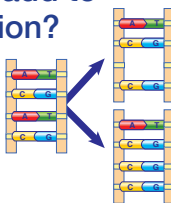
4 Which of the following is **not** a **characteristic** of **chromosomes and nuclei**?

- a. Genes are found in nuclei. Nuclei are found in chromosomes.
- b. Chromosomes are found in nuclei. Nuclei are found in genes.
- c. Genes are found on chromosomes. Chromosomes are found in nuclei.



10 Which **process** is least likely to add to the **variety of traits** in a population?

- a. genetic engineering
- b. accurate replication of DNA
- c. deletion of bases from DNA



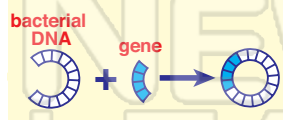


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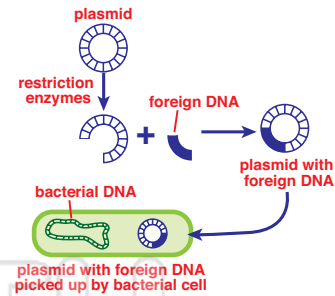
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3 Which of the following is a nucleic acid molecule? \_\_\_\_\_



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