

## Test-Taking Tip

For questions containing the word NOT, begin by jotting down items that do fit the characteristic in question. Then, compare your notes with the answer choices and eliminate those that correspond to your list. Finally, check to see that your answer is correct by confirming that it does not fit the characteristic in question.

Questions 1–5 Each of the lettered choices below refers to the following numbered statements. Select the best lettered choice. A choice may be used once, more than once, or not at all.

- (A) Cocci
- (B) Conjugation
- (C) Binary fission
- (D) Bacteriophage
- (E) Methanogen

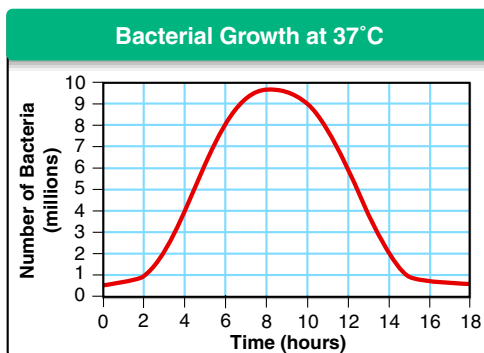
1. Type of parasite that attacks certain prokaryotes
2. Process of transferring genetic information
3. Spherical prokaryotes
4. Process of asexual reproduction
5. Member of Archaea

Choose the letter that best answers the question or completes the statement.

6. Which of the following is NOT used to identify specific prokaryotes?
  - (A) size
  - (B) shape
  - (C) movement
  - (D) energy source
  - (E) Gram stain
7. Which method is NOT used to protect food against microorganisms?
  - (A) salting
  - (B) freezing
  - (C) sterilization
  - (D) boiling
  - (E) vaccination
8. Which illness is caused by a bacterium?
  - (A) AIDS
  - (B) polio
  - (C) diphtheria
  - (D) common cold
  - (E) flu

9. Which process is used for the exchange of genetic information between two bacterial cells?
  - (A) lytic cycle
  - (B) lysogenic cycle
  - (C) conjugation
  - (D) binary fission
  - (E) immunization
10. All bacteria are classified as
  - (A) eukaryotes.
  - (B) protists.
  - (C) archaea.
  - (D) prokaryotes.
  - (E) blue-green algae.

Questions 11–12 Use the graph below to answer the questions.



11. At which point in the graph does the number of living bacteria increase at the greatest rate?
  - (A) Between hours 2 and 4
  - (B) Between hours 4 and 6
  - (C) Between hours 6 and 8
  - (D) Between hours 10 and 12
  - (E) Between hours 14 and 16
12. Which is the most likely reason for the decrease in bacteria shown?
  - (A) The temperature of the bacterial culture was too high after 8 hours.
  - (B) The bacteria stopped reproducing after 8 hours.
  - (C) More nutrients were added to the culture at regular intervals.
  - (D) Waste products from the bacteria accumulated in the nutrient solution.
  - (E) Bacteria growth was exponential after 8 hours.

## Standardized Test Prep

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|------|------|-------|
| 1. D | 5. E | 9. C  |
| 2. B | 6. A | 10. D |
| 3. A | 7. E | 11. B |
| 4. C | 8. C | 12. D |

## Performance-Based Assessment

Students' flipbooks should reflect the steps involved in the lytic infection as shown in Figure 19–10. Once students have completed their flipbooks, divide the class into pairs and have students in each pair write a review of the other student's flipbook. Advise students to focus their critiques on whether a flipbook accurately reflects what occurs in a lytic infection.

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