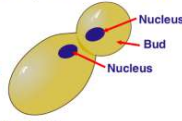




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

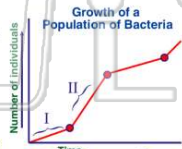
1 The diagram below represents a yeast cell that is in the process of **budding**.



Which statement describes the **outcome** of this process?

- A The bud will develop into a zygote.
- B The two cells that result will each contain half the species number of chromosomes.
- C The two cells that result will have identical DNA.
- D The bud will start to divide by the process of meiotic cell division.

3 This graph shows the **growth** of a population of bacteria over a period of 80 hours. Which statement best describes **section II** of the graph?



- A The population has reached the carrying capacity of the environment.
- B The rate of reproduction is slower than in section I.

4 Two food chains are represented below.

**Food chain A:** aquatic plant → insect → frog → hawk  
**Food chain B:** grass → rabbit → hawk

**Decomposers** are important for supplying energy for

- A food chain A, only
- B food chain B, only



## PREVIEW

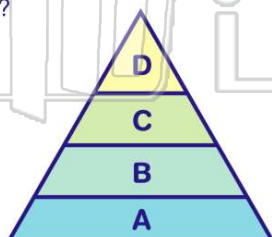
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- C manufacture food by respiration
- D contain vascular bundles

- C enzymes
- D hosts

9 Which **organisms** would most likely be found at **level A**?

- A birds
- B worms
- C mammals
- D algae



10 The use of **bio-remediation** by humans to **treat industrial wastes** is an example of

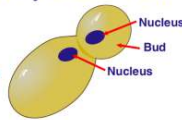
- A interfering with nature so that natural processes cannot take place
- B using a completely unnatural method to solve a problem
- C solving a problem by speeding up natural processes
- D being unaware of and not using natural processes



## ANSWER KEY

The diagram below represents a yeast cell that is in the process of **budding**.

Which statement describes the **outcome** of this process?



- A** The bud will develop into a zygote.
- B** The two cells that result will each contain half the species number of chromosomes.
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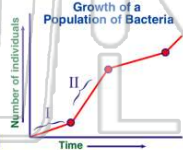
(C)

Which statement best describes how a **vaccination** can help **protect the body against disease**?

- A** Vaccines directly kill the pathogen that causes the disease.
- B** Vaccines act as a medicine that cures the disease.
- C** Vaccines cause the production of specific molecules that will react with and destroy certain microbes.
- D** Vaccines contain white blood cells that engulf harmful germs and prevent them from spreading throughout the body.

(C)

This graph shows the **growth** of a population of bacteria over a period of 80 hours. Which statement best describes **section II** of the graph?



- A** The population has reached the carrying capacity of the environment.
- B** The rate of reproduction is slower than in section I.
- C** The population is greater than the carrying capacity of the environment.
- D** The population is less than the carrying capacity of the environment.

(d)

Two food chains are represented below.

**Food chain A:** aquatic plant → insect → frog → hawk  
**Food chain B:** grass → rabbit → hawk

**Decomposers** are important for supplying energy for

- A** food chain A, only
- B** food chain B, only
- C** both food chain A and food chain B

(d)



## PREVIEW

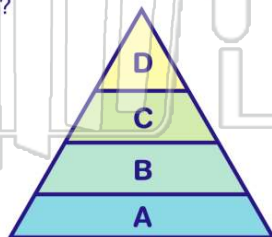
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**D** contain vascular bundles

**D** hosts

Which **organisms** would most likely be found at **level A**?

- A** birds
- B** worms
- C** mammals
- D** algae



(d)

The use of **bio-remediation** by humans to **treat industrial wastes** is an example of

- A** interfering with nature so that natural processes cannot take place
- B** using a completely unnatural method to solve a problem
- C** solving a problem by speeding up natural processes
- D** being unaware of and not using natural processes

(C)