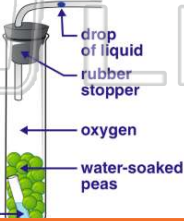





Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 Which of the following reactions are associated with **metabolism**?
- A cellular reactions that release energy
  - B photosynthetic reactions that store energy
  - C muscle reactions that use energy
  - D all of the above

- 3 In the demonstration shown, which **process** performed by the peas when they start to grow causes the drop of liquid to **move to the left**?
- 
- A protein synthesis
  - B photosynthesis
  - C
  - D

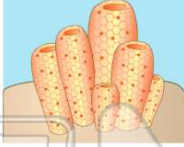
- 2 A certain mutant bacterial cell **cannot** produce substance X. The **mutation** was most likely the result of a change in the
- 
- A structure of the cell membrane
  - B ability of the DNA to replicate
  - C amino acid sequence of DNA
  - D gene that codes for a specific protein

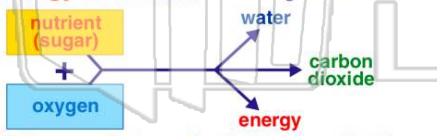
- 4 Which **process** accomplishes the **movement of gases** by the arrows in the diagram below?
- 
- A transpiration
  - B diffusion
  - C phagocytosis
  - D osmosis

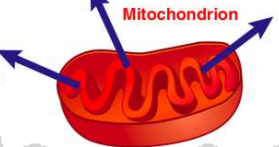
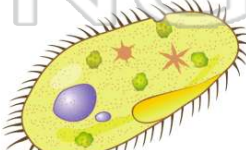


## PREVIEW

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- 8
- affected by this catalyst:
- A mitosis
  - B diffusion
  - C respiration
  - D photosynthesis
- 

- 9
- This diagram illustrates a process by which **energy is released** in an organism.
- 
- A glucose
  - B ATP
  - C oxygen
  - D enzymes

- 10
- Damage to which structure will most directly **disrupt water balance** within a single-celled organism?
- 
- 
- A ribosome
  - B cell membrane
  - C nucleus
  - D chloroplast



## ANSWER KEY

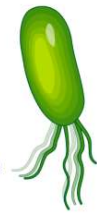
Which of the following reactions are associated with **metabolism**?

- A** cellular reactions that release energy
- B** photosynthetic reactions that store energy
- C** muscle reactions that use energy
- D** all of the above

(d)

A certain mutant bacterial cell **cannot** produce substance X. The **mutation** was most likely the result of a change in the

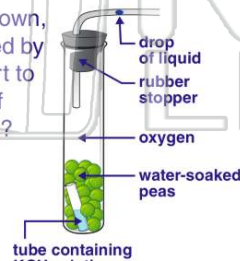
- A** structure of the cell membrane
- B** ability of the DNA to replicate
- C** amino acid sequence of DNA
- D** gene that codes for a specific protein



(d)

In the demonstration shown, which **process** performed by the peas when they start to grow causes the drop of liquid to **move to the left**?

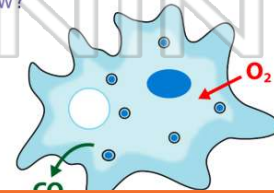
- A** protein synthesis
- B** photosynthesis
- C** digestion
- D**



(d)

Which **process** accomplishes the **movement of gases** by the arrows in the diagram below?

- A** transpiration
- B** diffusion
- C** phagocytosis
- D** osmosis



(b)



## PREVIEW

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- A** mitosis
- B** diffusion
- C** respiration
- D** photosynthesis



- B** oxygen
- C** carbon dioxide
- D** DNA



This diagram illustrates a process by which **energy is released** in an organism.



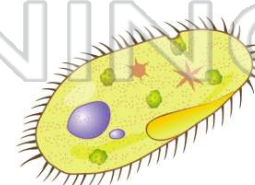
Cells usually **transfer** the energy that is released directly to

- A** glucose
- B** ATP
- C** oxygen
- D** enzymes

(b)

Damage to which structure will most directly **disrupt water balance** within a single-celled organism?

- A** ribosome
- B** cell membrane
- C** nucleus
- D** chloroplast



(b)