



Name _____ Class _____ Date _____

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

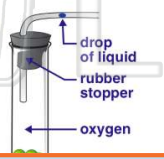
A cellular reactions that release energy
B photosynthetic reactions that store energy
C muscle reactions that use energy
D all of the above

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



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**?



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

A transpiration
B diffusion



5

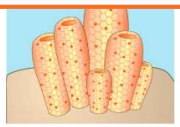


PREVIEW

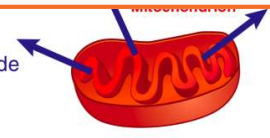
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- A** mitosis
- B** diffusion
- C** respiration
- D** photosynthesis

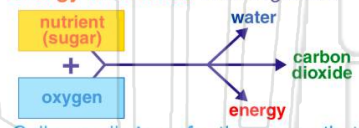


- A** glucose
- B** oxygen
- C** carbon dioxide
- D** DNA



9

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



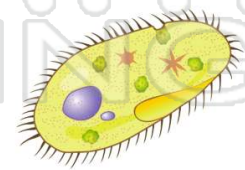
Cells usually **transfer** the energy that is released directly to

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

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





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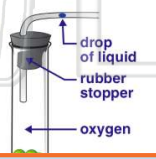
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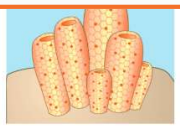


PREVIEW

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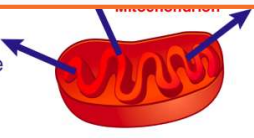
5

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A glucose
B oxygen
C carbon dioxide
D DNA



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

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