



Name _____ Class _____ Date _____

1

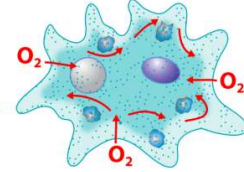
The **chemical reactions** taking place in a cell will most likely **speed up** if the

- A genetic material in the nucleus stops replicating
- B size of the cell is increased
- C enzymes involved in the reaction become deaminated
- D concentration of the reactants is increased

2

Which **life process** is indicated by the arrows in the diagram of an amoeba shown below?

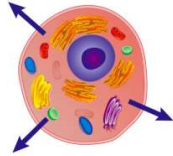
- A digestion
- B excretion
- C fermentation
- D transport



3

Which substances are **metabolic waste** products?

- A carbon dioxide, water, urea
- B glucose, water, oxygen
- C carbon dioxide, water, sugar
- D oxygen, water, protein



4

To remain healthy, organisms must be able to obtain materials, change the materials, move the materials around, and get rid of waste.

These activities directly require

- A energy from ATP
- B the replication of DNA
- C nutrients from inorganic sources
- D manipulation of altered genes



5

Which statement describes **all enzymes**?

- A They control the transport of materials.
- B They provide energy for chemical reactions.
- C They affect the rate of chemical reactions.
- D They absorb oxygen from the environment.

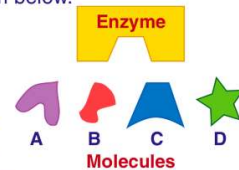


6

An **enzyme** and **four different molecules** are shown in the diagram below.

The enzyme would **most likely** affect reactions involving

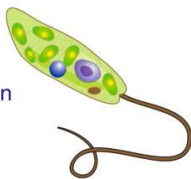
- A molecule A, only
- B molecule C, only
- C molecules B and D
- D molecules A and C



7

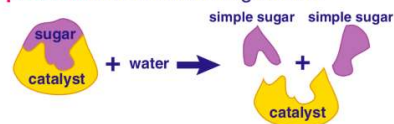
Every **single-celled organism** is able to survive because it carries out

- A metabolic activities
- B autotrophic nutrition
- C heterotrophic nutrition
- D sexual reproduction



8

The diagram below illustrates a **biochemical process** that occurs in organisms.



The substance labeled "**catalyst**" is also known as

- A a hormone
- B an enzyme
- C an antibody
- D an inorganic compound

9

The types of **enzymes** produced in a cell are **regulated by** the

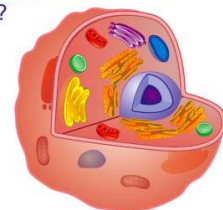
- A order of nucleotides in DNA molecules
- B shape of DNA molecules
- C size of nucleotides in DNA molecules
- D location of DNA molecules



10

In which process are simple materials **chemically combined** to form more complex materials?

- A synthesis
- B pinocytosis
- C hydrolysis
- D cyclosis





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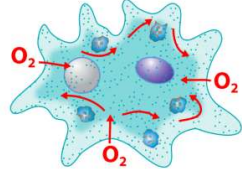
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(D)

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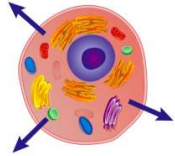
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(D)

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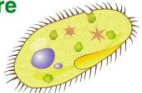
- A carbon dioxide, water, urea
- B glucose, water, oxygen
- C carbon dioxide, water, sugar
- D oxygen, water, protein



(A)

4 To remain healthy, organisms must be able to obtain materials, change the materials, move the materials around, and get rid of waste. **These activities directly require**


- A energy from ATP
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(A)

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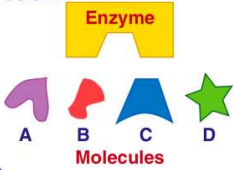


(C)

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The enzyme would **most likely affect reactions involving**

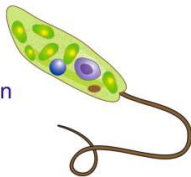
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- D molecules A and C



(B)

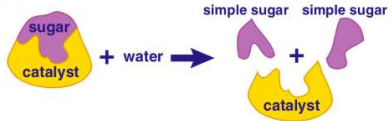
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- C heterotrophic nutrition
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(A)

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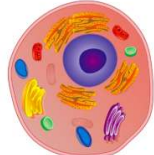
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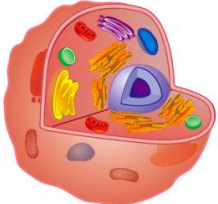
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(A)

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(A)