

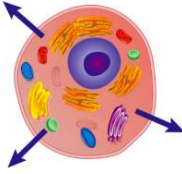


Name _____ Class _____ Date _____

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

3 Which substances are **metabolic waste** products?



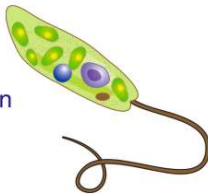
- A carbon dioxide, water, urea
- B glucose, water, oxygen
- C carbon dioxide, water, sugar
- D oxygen, water, protein

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.

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



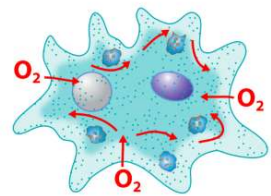
- A metabolic activities
- B autotrophic nutrition
- C heterotrophic nutrition
- D sexual reproduction

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

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

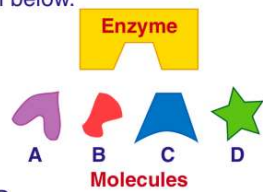
4 To remain healthy, organisms must be able to obtain materials, change the materials, move the materials around, and get rid of waste. **These activities directly require**



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

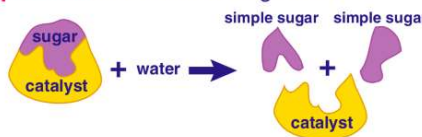
6 An **enzyme** and **four different molecules** are shown in the diagram below.

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

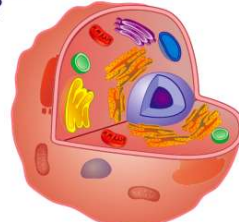
8 The diagram below illustrates a **biochemical process** that occurs in organisms.



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

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

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



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



ANSWER KEY

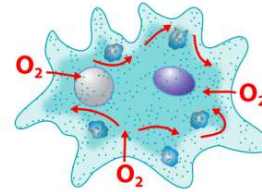
The **chemical reactions** taking place in a cell will most likely **speed up** if the

- A** genetic material in the nucleus stops replicating
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(d)

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

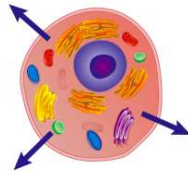
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(d)

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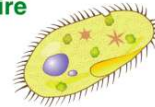


(a)

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

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- B** the replication of DNA
- C** nutrients from inorganic sources
- D** manipulation of altered genes



(a)

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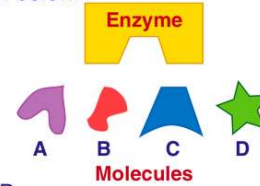


(c)

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

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

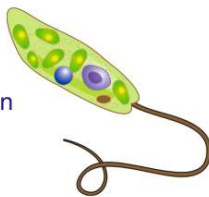
- A** molecule A, only
- B** molecule C, only
- C** molecules B and D
- D** molecules A and C



(b)

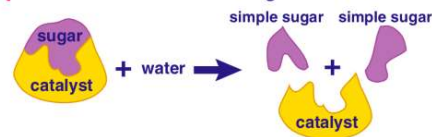
Every **single-celled organism** is able to survive because it carries out

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- B** autotrophic nutrition
- C** heterotrophic nutrition
- D** sexual reproduction



(a)

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



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(b)

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

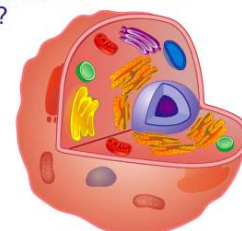
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- C** size of nucleotides in DNA molecules
- D** location of DNA molecules



(a)

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

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- B** pinocytosis
- C** hydrolysis
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(a)