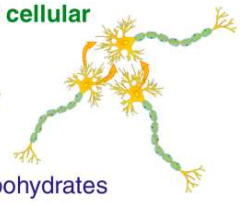
Cell processes

BIO

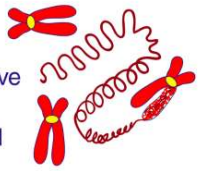
Name _____ Class _____ Date _____

1 Two primary agents of **cellular communication** are



A chemicals made by blood cells and simple sugars
B hormones and carbohydrates
C enzymes and starches
D hormones and chemicals made by nerve cells

2 **Chromosomes** can be described as

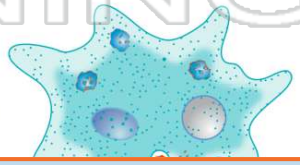


A large molecules that have only one function
B folded chains of bonded glucose molecules
C reproductive cells composed of molecular bases
D coiled strands of genetic material

3 All life depends on the availability of **usable energy**. This energy is **released** when

A organisms convert solar energy into the chemical energy found in food molecules
B respiration occurs in the cells of producers and high-energy molecules enter the atmosphere

4 Which **activity** is illustrated in the diagram of an **ameoba** shown below?



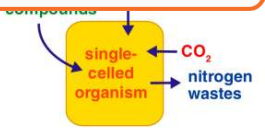
A egestion
B synthesis
C respiration
D ingestion

5

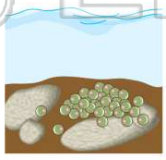
7

A are the same size as the enzyme
B are the same size as the substrate molecules
C have a shape that fits into the enzyme
D have a shape that fits into all cell receptors

B respiration, only
C excretion, only
D the digestion of proteins



9 If frog eggs taken from a **freshwater pond** are placed in a **saltwater aquarium**, what will most likely happen?



A Water will leave the eggs.
B Salt will leave the eggs.
C Water will neither enter nor leave the eggs.
D The eggs will burst.

10 Which **substances** are found on **cell surfaces** and **respond** to nerve and hormone signals?

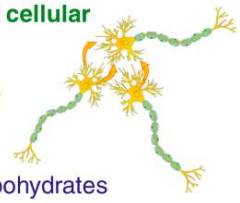
A starches and simple sugars
B subunits of DNA
C vitamins and minerals
D receptor molecules

Cell processes

BIO

ANSWER KEY

Two primary agents of **cellular communication** are



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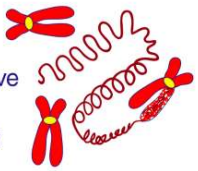


A large molecules that have only one function
B folded chains of bonded glucose molecules
C reproductive cells composed of molecular bases
D coiled strands of genetic material

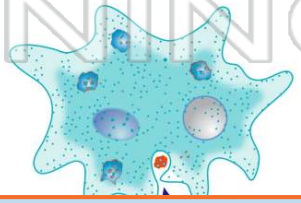
d

All life depends on the availability of **usable energy**. This energy is **released** when

A organisms convert solar energy into the chemical energy found in food molecules
B respiration occurs in the cells of producers and high-energy molecules enter the atmosphere
C cells carry out the process of respiration

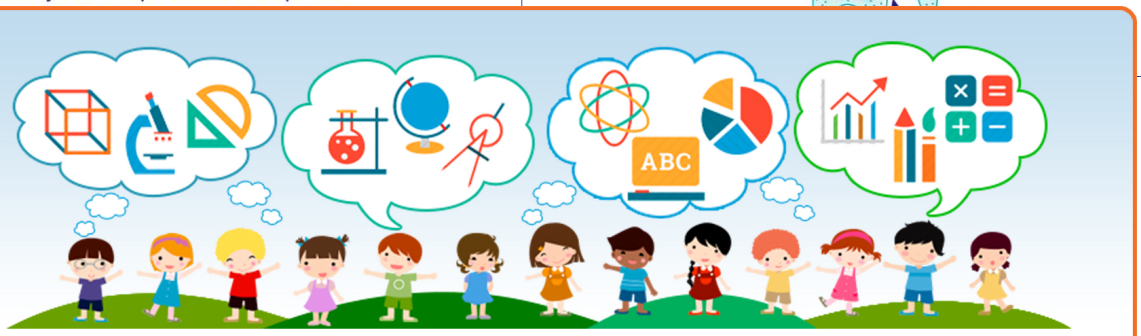
c

Which **activity** is illustrated in the diagram of an **ameoba** shown below?



A egestion
B synthesis
C respiration
D ingestion

d



B are the same size as the substrate molecules
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C excretion, only
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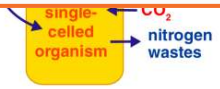

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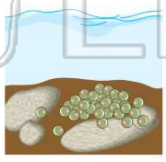

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a

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