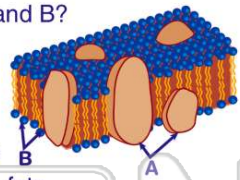




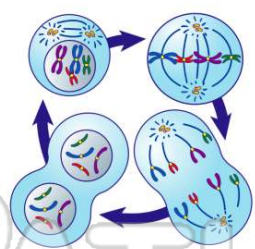
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 In the diagram of the **plasma membrane** shown below, which structures are indicated by letters A and B?




**A** A — proteins;  
B — lipids  
**B** A — fats;  
B — carbohydrates  
**C** A — cellulose; B — fats  
**D** A — water; B — proteins

2 **Uncontrolled cell division** is a characteristic of



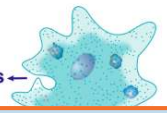
**A** cleavage  
**B** oogenesis  
**C** cancer  
**D** regeneration

3 While viewing a slide of **rapidly moving sperm cells**, a student concludes that these cells require a large amount of energy to maintain their activity. The **organelles** that most directly provide this **energy** are known as



**A** vacuoles  
**B** ribosomes

4 A single-celled organism is represented in the diagram below. An activity is indicated by the **arrow**. If this activity requires the use of energy, **which substance would be the source of this energy?**



**A** DNA  
**B** ATP




## PREVIEW

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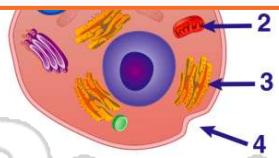
7

**B** vascular tissue  
**C** gastrovascular cavities  
**D** cell membranes



8

**B** 2  
**C** 3  
**D** 4



9 The destruction of all **ATP molecules** in a cell would **interfere** most immediately with the process of

**A** diffusion  
**B** active transport  
**C** respiratory gas exchange  
**D** osmosis

10 In which **cell structure** is the largest amount of **ATP** formed?

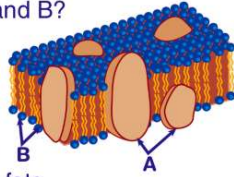
**A** nucleolus  
**B** endoplasmic reticulum  
**C** mitochondrion  
**D** ribosome



## ANSWER KEY

In the diagram of the **plasma membrane** shown below, which structures are indicated by letters A and B?

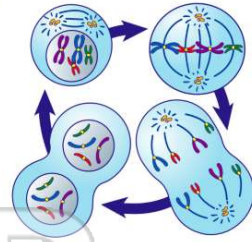
- A** A — proteins; B — lipids
- B** A — fats; B — carbohydrates
- C** A — cellulose; B — fats
- D** A — water; B — proteins



(a)

**Uncontrolled cell division** is a characteristic of

- A** cleavage
- B** oogenesis
- C** cancer
- D** regeneration



(c)

While viewing a slide of **rapidly moving sperm cells**, a student concludes that these cells require a large amount of energy to maintain their activity. The **organelles** that most directly provide this **energy** are known as

- A** vacuoles
- B** ribosomes
- C** chloroplasts
- D** mitochondria



(d)

A single-celled organism is represented in the diagram below. An activity is indicated by the **arrow**. If this activity requires the use of energy, **which substance would be the source of this energy?**

- A** DNA
- B** ATP
- C** a hormone
- D** glucose



(b)



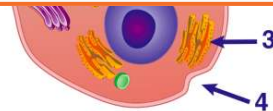
## PREVIEW

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- C** gastrovascular cavities
- D** cell membranes



- C** 3
- D** 4



The destruction of all **ATP molecules** in a cell would **interfere** most immediately with the process of

- A** diffusion
- B** active transport
- C** respiratory gas exchange
- D** osmosis

(b)

In which **cell structure** is the largest amount of **ATP** formed?

- A** nucleolus
- B** endoplasmic reticulum
- C** mitochondrion
- D** ribosome

(c)