



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

1 A hydra **ingests** a Daphnia, **digests** it, and later **egests** some materials. All of these events are most closely associated with the life process known as

- A transport
- B nutrition
- C growth
- D synthesis



3 **Nutrition** involves those **activities** by which organisms

- A remove cellular waste products
- B obtain and process materials needed for other activities
- C exchange gases with their

2 **Most** organisms contain

- A organic compounds, only
- B inorganic compounds, only
- C both organic and inorganic compounds
- D neither organic nor inorganic compounds

4 The results provided by **Stanley Miller's experiments** involving a simulated primitive environment, as described in the **heterotroph hypothesis**, show that in this environment

- A only inorganic molecules can be synthesized
- B there is little possibility for the synthesis of complex molecules

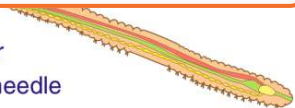


## PREVIEW

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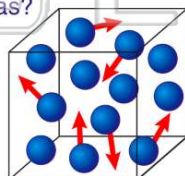
- 7 **B** Jean Lamarck — origin of life on Earth
- C** Stanley Miller — survival of the fittest
- D** Charles Darwin — natural selection

- A a glass slide
- B a metric ruler
- C a dissecting needle
- D a dropping pipette



9 A **gas** resulting from **aerobic respiration** is released into water. Which substance could be used to indicate a change in the water due to the release of the gas?

- A bromthymol blue
- B Benedict's solution
- C iodine solution
- D methylene blue



10 **Which procedure** must be followed for the results of an experiment to be considered **valid**?

- A The experiment must be repeated a number of times and yield similar results.
- B After one trial, the results of the experiment must be published.
- C The results must be expressed in the form of a table or graph.
- D The data must include metric measurements.



## ANSWER KEY

A hydra **ingests** a Daphnia, **digests** it, and later **ejects** some materials. All of these events are most closely associated with the life process known as

- A** transport
- B** nutrition
- C** growth
- D** synthesis



(b)

**Most** organisms contain

- A** organic compounds, only
- B** inorganic compounds, only
- C** both organic and inorganic compounds
- D** neither organic nor inorganic compounds

(c)

**Nutrition** involves those **activities** by which organisms

- A** remove cellular waste products
- B** obtain and process materials needed for other activities
- C** exchange gases with their environment
- D** check and circulate materials

(b)

The results provided by **Stanley Miller's experiments** involving a simulated primitive environment, as described in the **heterotroph hypothesis**, show that in this environment

- A** only inorganic molecules can be synthesized
- B** there is little possibility for the synthesis of complex molecules
- C** organic molecules can be synthesized
- D** only complex nucleic acid molecules can

(c)

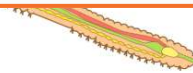


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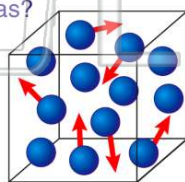
- C** Stanley Miller — survival of the fittest
- D** Charles Darwin — natural selection

- B** a metric ruler
- C** a dissecting needle
- D** a dropping pipette



A **gas** resulting from **aerobic respiration** is released into water. Which substance could be used to indicate a change in the water due to the release of the gas?

- A** bromthymol blue
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(a)

**Which procedure** must be followed for the results of an experiment to be considered **valid**?

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(a)