

1) _____ Students for an experiment comparing the activity of four different enzymes, **A**, **B**, **C**, and **D**. The results are represented in the graph available at www.bit.ly/rlevEffectofPHonEnzyme.

A valid conclusion based on the information in the graph is that...

- a) The PH of some enzymes changes as the temperature changes
- b) enzymes change color in proportion to the rate of activity
- c) a difference in the PH of an environment changes enzyme activity
- d) enzyme activity causes acids to change into bases over time

2) _____ *Euglena* are unique single-celled organisms. Depending on the physical conditions present in their aquatic environment, *Euglena* can act as either producers or consumers. -- www.bit.ly/rleveuglena

Euglena will most likely act as consumers when placed in an environment that has...

- a) an acidic PH
- b) a low O₂ level
- c) little or no light present
- d) many predators

3) In a DNA molecule, there is 38% of the C (cytosine) base, then _____% is thymine

4) Base your answer on the diagram you can find at www.bit.ly/rlevpyramid1

Based on the diagram, only some of the energy is transferred between each level...what happens to the rest of the energy?

Global Warming

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For Questions 5 and 6, use the paragraph you can find here www.bit.ly/rlevglobalwarming

- 5) Other than the issues mentioned in the passage, state one action that humans could take to slow down the rate of global warming.

- 6) Other than global warming, state one specific effect on the environment if the human activities mentioned in the passage continue.

- 7) _____ Using the diagram you can find at answer the following question
The diagram you can find at www.bit.ly/rlevstomateandguard represents a cross section of a leaf of a green plant, showing an opening (stomate) in the lower surface.

A stomate in the lower surface of the leaf has a function most similar to the function of which cell structure?

- a) Cell Membrane
- b) Vacuole
- c) Nucleas
- d) Ribosome

- 8) _____ The first (top) diagram found at <https://bit.ly/rlevcellexpose> shows cellular changes.
Which row on the chart under the diagram completes the diagram's A B and C?

- a) Row 1
- b) Row 2
- c) Row 3
- d) Row 4

- 9) _____ It may be harmful when people compete to see who can hold their breath longest under water. Without oxygen, brain cells...

- a) Have too few mitocondrea
- b) cannot make ATP
- c) make too many enzymes
- d) have too much water

10) _____ Active transport does not require energy (ATP).

- a) True
- b) False

11) _____ Using the diagram you can find at <https://bit.ly/rlevdnmut> answer the following question.

The diagram represents the locations of two mutations in a strand of a DNA molecule, if this DNA is located in the nucleus of a skin cell, the cell will...

- a) pass the mutations on to only half the cells that develop from it
- b) delete all of the DNA in the nucleus and synthesize new DNA
- c) correct the mutations after several generations
- d) pass the mutations on to the cells that develop from it