

1. Which of the following is true regarding enzymes?

- A) Enzyme function is not affected by changes in temperature or pH.
- B) Enzymes slow the rate of chemical reactions in living systems.
- C) Enzymes are consumed in a chemical reaction, so an organism must constantly replace these enzymes.
- D) Each enzyme catalyzes one specific reaction or group of reactions.
- E) Enzymes convert products into reactants

2. When an enzyme catalyzes a reaction; it?

- a) lowers the amount of energy that is required to get the reaction going;
- b) raises the amount of energy that is required to get the reaction going;
- c) becomes the product of the reaction;
- d) acts as the reactant.

3. Which of these statements about enzyme inhibitors is true?

- a) A competitive inhibitor binds to the enzyme outside the active site;
- b) the action of competitive inhibitors may be reversible or irreversible;
- c) A noncompetitive inhibitor does not change the shape of the active site;
- d) When the product of an enzyme or an enzyme sequence acts as its inhibitor, this is known as positive feedback;
- e) Antibiotics and pesticides generally do not act on enzymes, but rather affect the genetic code of their victims.

4. If human white blood cells were extracted from your circulatory system, and then placed into an isotonic solution, which of the following is most likely to occur? (this is what we will discuss Monday)

- a) Water will rush into the cells and the cells will swell and eventually burst.
- b) Because there is more water outside the cell than inside the cell, an equal amount of water will enter the cell and leave the cell.
- c) There will be no change in the cells because the isotonic environment is in equilibrium with the cells.
- d) Because a hypertonic environment is highly acidic, these cells will become acidic as well.
- e) Water will diffuse out of the cells, and they will decrease in cell volume.

Use the following key to answer the next three questions:

- | | | | |
|--------------|---------------------------------|----------------------------------|---------------------------------------|
| a) nucleus; | b) rough endoplasmic reticulum; | c) smooth endoplasmic reticulum; | d) golgi |
| e) lysosome; | ab) mitochondria; | ac) ribosomes; | ad) cell membrane; ae) none of these. |

5. The location where your DNA gets transcribed into RNA so that your cell can make a protein.

6. Your white blood cell just engulfed a bacterium that was introduced into your finger from a splinter. What organelle inside the white blood cell will "digest" the bacterium?

7. You're blood sugar level is high after a meal and needs to be lowered. Where will the insulin bind in order to lower your blood sugar level?

8. You throw your pencil and hit the person sitting in front of you. What type of energy was exhibited by the flying pencil?

- a) kinetic energy;
- b) potential energy;
- c) both potential and kinetic energy;
- d) neither potential nor kinetic

9. The term "aerobic" refers to?

- a) wine making;
- b) with CO₂;
- c) with O₂;
- d) without O₂;
- e) with love and affection

10. Which of the following is false for an endergonic reaction?

- a) products have more potential energy than reactant;
- b) there must be an input of energy into the reaction;
- c) growth is an example of this reaction;
- d) reactant have more potential energy than products.

11. You get bit by a rattlesnake because you decide to play snake charmer. The venom starts digesting your finger. This is an example of a(n) _____ reaction.

- a) anabolic;
- b) catabolic;
- c)

12. After learning about cellular respiration, you decide to do an experiment where you fed mice with glucose (C₆H₁₂O₆) in which the carbon portion of the sugar was radioactively labeled. You monitored the mice closely, and in a few minutes radioactive carbon atoms from the glucose showed up in:

- a) CO₂;
- b) NADH;
- c) H₂O;
- d) ATP;
- e) O₂.

13. Which of the following is false for an endergonic reaction?

- a) products have more potential energy than reactant;
- b) there must be an input of energy into the reaction;
- c) growth is an example of this reaction;
- d) reactant have more potential energy than products.

14. The next exam on Thursday, 15 October 2015.

A) TRUE;

b) —;

c) it is???

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Marcel A. Müller



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web jan 31 2014 radiation induced skin reaction risr is a common side effect that affects the majority of cancer patients receiving radiation treatment risr is often characterised by swelling redness pigmentation fibrosis and ulceration