

16. Base your answer to the following question on The diagram below represents events involved as energy is ultimately released from food.



X-X-X-X-X-X-X	A and B
(1) nutrient	anabolism
(2) nutrient	catabolism
(3) homopolymers	metabolism
(4) heteropolymers	metabolism

Which number in the table above best represents the value of X and letters A and B in the diagram?

- A) 1 B) 2 C) 3 D) 4

17. Which statement describes all enzymes?

- A) They control the transport of materials.  
B) They provide energy for chemical reactions.  
C) They affect the rate of chemical reactions.  
D) They absorb oxygen from the environment.

18. Luciferin is a molecule that, when broken down, in fireflies, produces heat and light. The rate at which luciferin is broken down in cells is controlled by

- A) a carbohydrate B) a simple sugar  
C) an enzyme D) a complex fat

19. What happens to certain nutrient molecules after they pass into muscle cells?

- A) They are replicated in the nucleus.  
B) They are activated by enzymes and release the energy they contain.  
C) They are changed into forms and oxygen in the cytoplasm.  
D) They enter chloroplasts, where they can absorb light energy.

20. Base your answer to the following question on the chemical reactions below and on your knowledge of biology.

21. Two chemical equations are shown below.



What do letters A and B represent?

- A) A - lipase; B - protease  
B) A - protease; B - maltase  
C) A - maltase; B - lipase  
D) A - maltase; B - protease

22. Which statement about enzymes is not correct?

- A) Enzymes are composed of polypeptide chains.  
B) Enzymes form a temporary association with a reactant.  
C) Enzymes are destroyed when they are used and must be synthesized for each reaction.  
D) Enzymes are specific because of their shape and catalyze only certain reactions.

# Enzyme Regents Questions

**Gregory Scott Hunter**



## Enzyme Regents Questions:

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