Biology Test
Module 5

Vocabulary Matching

_____1. Phosphorylation
_____2. Pigment
_____3. Chlorophyll
_____4. Stroma
_____5. Thylakoid
_____6. Grana
_____7. Photosystem
_____8. Electron transport chain
_____9. Aerobic
_____10. Anaerobic
_____11. Glycolysis
_____12. Fermentation

a. The first stage of cellular respiration.
b. Requiring oxygen
c. Gel-like fluid found inside the inner membrane of a chloroplast
d. Without oxygen
e. Disk-shaped sac suspended in the stroma of chloroplasts. It is the site of the light reactions of photosynthesis.
f. A cluster of chlorophyll and other molecules in the thylakoid membrane that absorbs light energy
g. Stacks of thylakoids
h. An organic compound giving a specific color to plant or animal cells.
i. A group of pigments found in algae and green plants. Necessary for photosynthesis.
j. The transfer of energy when a phosphate group is moved between molecules.
k. A cellular process producing ATP without oxygen
l. A series of electron-carrying molecules within a membrane which transfer electrons

Draw and label how ATP is converted into ADP. Use “adenine”, “ribose”, adenosine”, “phosphate group”, “H_2O”, “energy”, “ATP”, and “ADP”.

13. What is the difference between ATP and glucose? Be sure to explain in biological terms.

14. What three things can happen when visible light hits a substance?

15. Write the photosynthesis equation below:

16. What is cellular respiration?

17. What are the four steps of cellular respiration, in order?

18. What are the two types of fermentation?

19. What are the three types of work? Give an example of each.