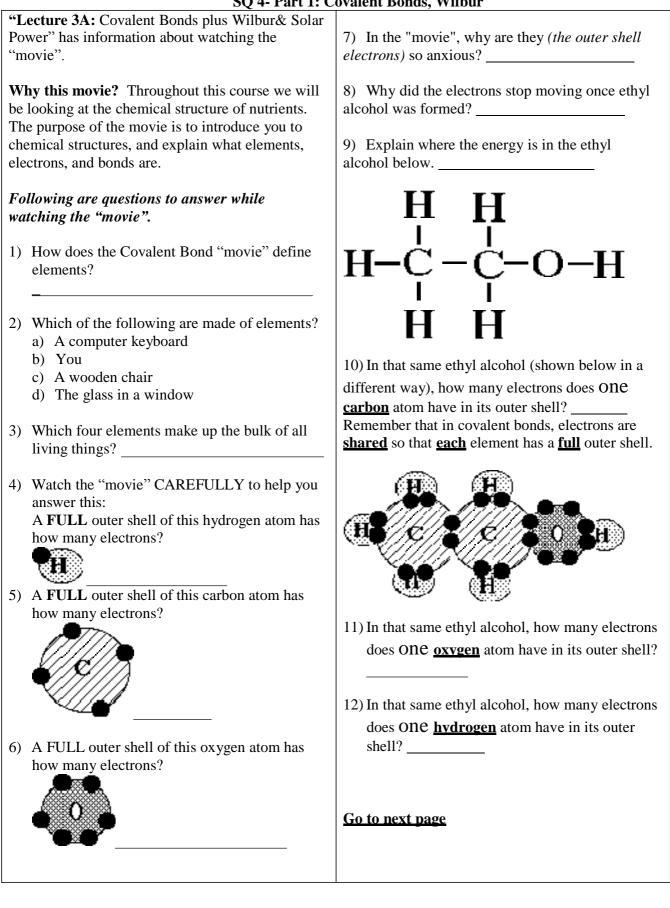
Study Questions- Chapter 4-1

SQ 4- Part 1: Covalent Bonds, Wilbur



Study Questions- Chapter 4-1

Use Lecture 3B: "Wilbur & Solar Power "as well the Wilbur Drawing and your Notes about the Wilbur Drawing in the Lecture Outline for Chapter 4-1 to answer the following questions

13) Photosynthesis produces:

- a) glucose
- b) oxygen
- c) carbon dioxide
- d) water
- e) starch
- f) a significant amount of energy release
- 14) Enzymatic digestion of starch produces
 - a) glucose
 - b) oxygen
 - c) carbon dioxide
 - d) water
 - e) starch
 - f) a significant amount of energy release

15) Cellular respiration uses

- a) glucose
- b) oxygen
- c) carbon dioxide
- d) water

16) Cellular respiration *produces*

- a) glucose
- b) oxygen
- c) carbon dioxide
- d) water
- e) starch
- f) a significant amount of energy release

17) Besides an energy source for its own growth and reproduction, what does a plant make from glucose?

- a) fiber
- b) proteins
- c) fats
- d) minerals
- e) vitamins
- 18) Which provides a lot of energy for the *plant* to grow?
 - a) glucose in leaves
 - b) glucose coming from starch in the plant's seeds
- 19) Which provides a lot of energy for a *sprout* to grow?
 - a) glucose in leaves
 - b) glucose coming from starch in the plant's seeds

Study Questions- Chapter 4-1

- 20) Select the **ONE** best statement
 - a) Glucose breakdown in cells (cellular respiration) releases energy,
 - b) Glucose breakdown creates energy,
 - c) Glucose breakdown expends more energy than it releases or creates.
- 21) Select the **TRUE** statements:
 - a) Oxygen is USED in Step #1 (Photosynthesis) of Wilbur.
 - b) Oxygen is PRODUCED in Step #1 (Photosynthesis) of Wilbur.
 - c) Oxygen is PRODUCED in Step #3 (Digestion & Absorption) of Wilbur.
 - d) Oxygen is USED in Step #5 (Cellular Respiration) of Wilbur.
 - e) Oxygen is PRODUCED in Step #5 (Cellular Respiration) of Wilbur.

22) Why is glucose so important to the human body?

23) Take a look at the FORUM for Week 2 (last week). Do you find one posting done by you?

MYSTERY OUESTION. For this one, have your Ch. 4-1 lecture outline in front of you. You will be asked 1 or more questions about something from one of the blanks in this LECTURE OUTLINE.