

BIOLOGY 11 - PRE-LAB EXERCISE

11

Name:

Lab Day & Time:

ENZYMES AND DIGESTION

Review Ch. 2.8 in your text and Act. 1 in the lab - answer the following questions:

Enzymes belong to which group of macromolecules?

If enzymes do not change the ultimate result of a reaction, then what is their purpose?

Review Ch.14.2 in your text and Act. 2 in the lab - answer the following questions:

What type of enzyme is found in saliva and what molecule does it help to digest?

Describe what you will be doing in Activity 2 in the lab.

Review C. 14.4 in the text and Act. 3 in the lab - answer the following questions:

Which type of macromolecule is digested in the stomach?

What is the normal pH of the stomach?

Describe what you will be doing in Activity 3 in the lab.

Review Ch. 14.5 and 14.6 in the text and Act. 4 in the lab answer the following questions:

Which two substances aid in the complete breakdown of fat?

Describe what you will be doing in Activity 4 in the lab.

POST-LAB ASSESSMENT
LAB #11: ENZYMES AND DIGESTION

Explain how food inside your intestines can be “outside” your body?

Describe how enzymes are produced by enzyme secreting cells and how do enzymes function?

Why is lipase (the enzyme for lipid digestion) on it’s own, not very effective? What other substance is needed and why?

If you eat “tripe” you are digesting an animal’s stomach. How does your stomach prevent itself from digesting itself?

Name the different organs that synthesize digestive enzymes

Explain why salivary amylase cannot break down starches once you swallow and it enters your stomach and likewise, why wouldn’t pepsin work on proteins if it were in your mouth?