

Lab 1: Digestion

Starch Digestion pp.151-153, p.158 questions 1-4, 14

Oral Cavity & Pharynx pp.160-63, p.172 questions 1-5, 9, 10, 18

Digestion Introduction (p.151)

-Be sure to understand what occurs during digestion and how food is broken down by enzymes using hydrolysis

Starch Digestion by Salivary Amylase (p.152-153)

-Know the formula for the breakdown of *starch* into *maltose* using the enzyme *amylase*

-Read and follow procedures carefully

-perform tests for tubes 1 & 2 at side benches for immediate results

-change all times from 30min to 20min

-omit the “what do you expect” questions

-Be sure to fill in Table 12.1 using both Iodine and Benedict’s test results for the appropriate test tubes (note test tubes 1 & 2 have same contents but you used test tube 1 to test for presence of starch using iodine and test tube 2 to test for maltose using Benedict’s – similarly tubes 3 & 4 are a pair, 5 & 6 are a pair and 7&8 are a pair)

-answer conclusion questions on bottom of p. 153

Mammalian Anatomy Introduction (p.160)

-Read top paragraphs

Obtain a bag, 2 pieces of rope, twist tie, and ID tag from the side bench

-label tag with your last name, class day & time

Obtain a pig from your instructor

External Anatomy (p.160-161)

-Know and be able to locate the following: tongue, digits, wrist, ankle, elbow, knee, shoulder, hip, umbilical cord, nipples, anus, urogenital papilla (females), scrotal sac (males) and the urogenital opening (located in different places on males and females).

-Identify the sex of your pig and write it down on your tag

-Locate a group with the opposite sex to understand how to identify both sexes

Oral Cavity and Pharynx (p.162-163)

-Secure your pig using the string (as shown)

-Read about the oral cavity and then proceed with dissection

-Observe demonstration for incisions and then follow procedures

-Locate the following items once when you have completed the dissection

-pharynx, glottis, epiglottis, trachea, esophagus, hard palate, & soft palate

-use your instruments to explore the oral cavity

-Know what is meant when we say that the pharynx is the *crossroads* for air and food