

Gr.11 Biology – Digestive system Unit Review

This unit is broken down into 3 components

1. Identification of all the parts and components involved in the digestive system
2. Understanding the physiology of each component involved in the digestive system
3. Macromolecules and nutrition – knowing the roles and functions of enzymes, and various macromolecules involved in the digestive system.

Review part I:

1. Understanding the physiology of each component involved in the digestive system
 - i. Define or provide the function of the following:
 - a. Alimentary canal
 - b. Bile
 - c. Anorexia nervosa
 - d. Bulimia nervosa
 - e. Cecum
 - f. Chyme
 - g. Cirrhosis
 - h. Colon
 - i. Duodenum, jejunum, ileum
 - j. Epiglottis and glottis
 - k. Structure of carbohydrates
 - l. Structure of nucleic acids
 - m. Structure of lipids
 - n. Structure of proteins
 - o. Gallbladder
 - p. Spleen
 - q. Jaundice
 - r. Lactose intolerance
 - s. Large intestine
 - t. Liver
 - u. Pancreas
 - v. Bolus
 - w. Pharynx
 - x. Peristalsis
 - y. Reflex action
 - z. Salivary amylase
 - aa. Stomach
 - bb. Osteoporosis
 - ii. Where are salivary glands located?
 - iii. Describe the swallowing reflex
 - iv. Describe the characteristics of the digestive tract in terms of its wall layering
 - v. What is the function of pancreatic juices?
 - vi. Distinguish the main functions of the small intestine to the large intestine
 - vii. What is the function of the glucagon hormone?
 - viii. What is the function of insulin?
 - ix. Where are glucagon and insulin secreted?

- x. Why is the liver called the “gatekeeper” to the blood?
- xi. If the liver is no longer functioning at its fullest capacity, what are some functions that it will affect?
- li . Distinguish between the structure of proteins and nucleic acids
- iii. Distinguish between the structure of carbohydrates and lipids
- iv. What is the difference between vitamins and minerals?
- v. What is the function of the following enzymes: salivary amylase, pancreatic amylase, pepsin, trypsin, lipase?