



مدرسة جيه اس اس الخاصة JSS PRIVATE SCHOOL, DUBAI

Name: Nidhi Subject: Biology Reg. No.:

Home Work : PF sheet

Date:

1. The first digestive organ that is associated with the breakdown of proteins in humans is the stomach. It releases hydrochloric acid (HCl) in order to kill the microbes, activate pepsin and maintain the acidic pH. Pepsin is another release, it is used to breakdown protein. The third release is mucus, it protects the inner lining of the stomach to protect it from the action of HCl. The stomach also contains two other enzymes known as renin and lipase.
2. Herbivores have a longer smaller intestine as compared to carnivores because, they eat a plant based fibrous diet. This takes longer to digest as compared to a meat based diet.
3. The bile duct is tube that connects the liver to the small intestine. It transports a juice that is secreted by the pancreas known as pancreatic juice. This pancreatic juice consists of 3 substances known as:
 - Trypsin: Breakdown of proteins.
 - Lipase: Breakdown lipids
 - Amylase: Breakdown of starch.Therefore, if the bile duct is completely blocked, this juice will not reach the small intestine and the breakdown of protein, lipids and starch will not place. This will cause a major hindrance to the digestive process and possibly stop it, which can be very harmful for human beings.

4. Three main characteristics of villi that makes it into an efficient nutrients absorbing surface:

1. It is a finger-like structure
2. It contains a large number of blood vessels in order to transport the nutrients to different parts of the body.
3. It also increases the surface area of absorption.

5. 2 steps involved in photosynthesis are:

1. The absorption of sunlight
 2. Conversion sunlight to chemical energy (ATP).
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5. Alimentary Canal / Digestive System Date:

