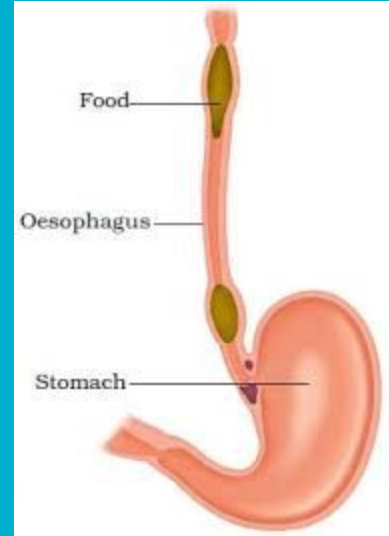
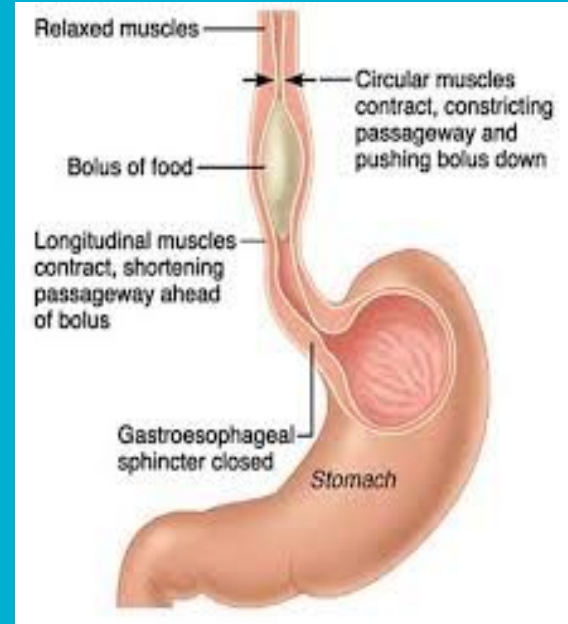


Oesophagus (The Food pipe)

It is a tube-like structure connecting the mouth and the stomach. It is about 30 cm long. Oesophagus has powerful muscles which gently push the food down to the stomach.



The oesophagus contracts and relaxes in a rhythmic fashion to facilitate the forward movement of food. This movement happens in other parts of the alimentary canal as well and is called peristalsis. **There is no digestion takes place in oesophagus.**

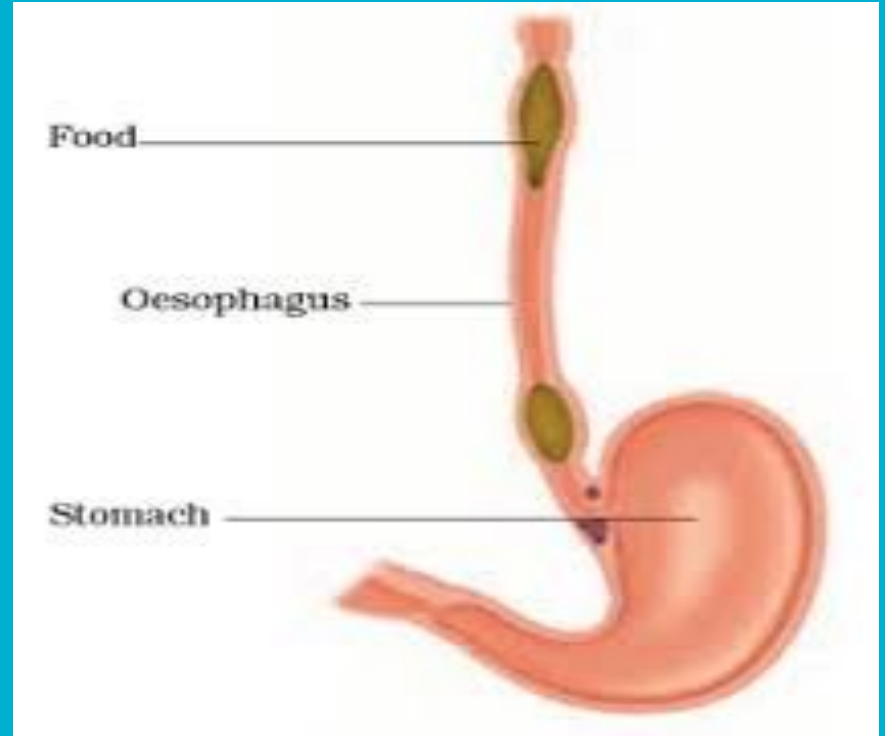


Stomach

It is a **muscular J-shaped thick walled bag**.

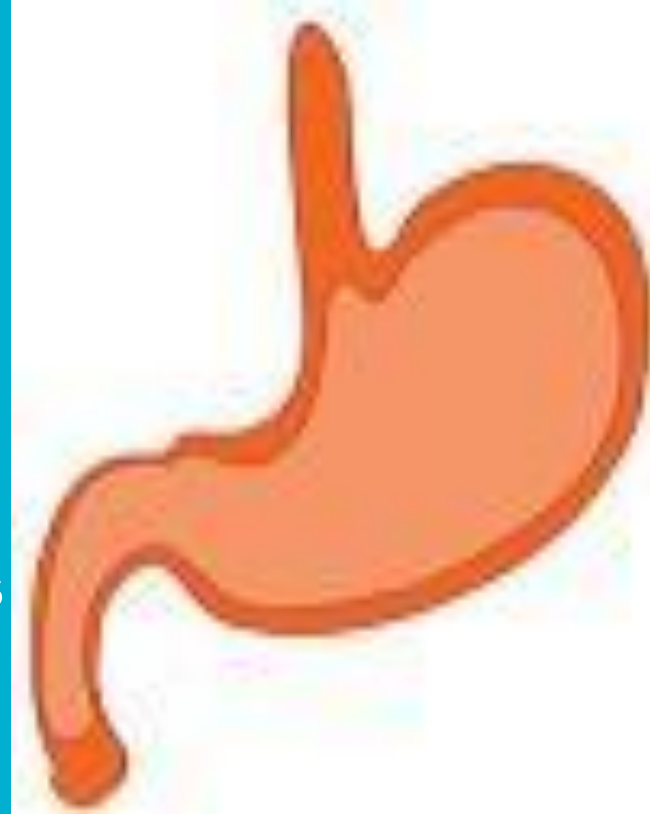
Stomach is the **widest part** of alimentary canal.

It receives food at one end from food pipe and open into the small intestine from other end.



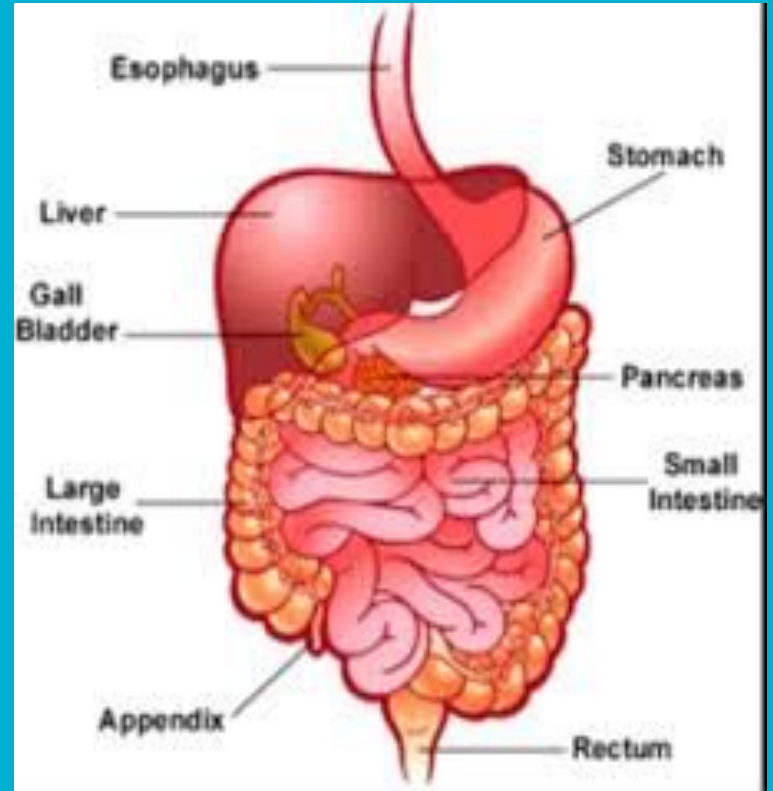
Stomach churns the food to mix digestive juices. The food in the stomach is churned into semi solid.

The churned semi-solid food is called chime. Gastric juice is secreted from the wall of stomach and mixed with food. Gastric juice contains some enzymes and hydrochloric acid.



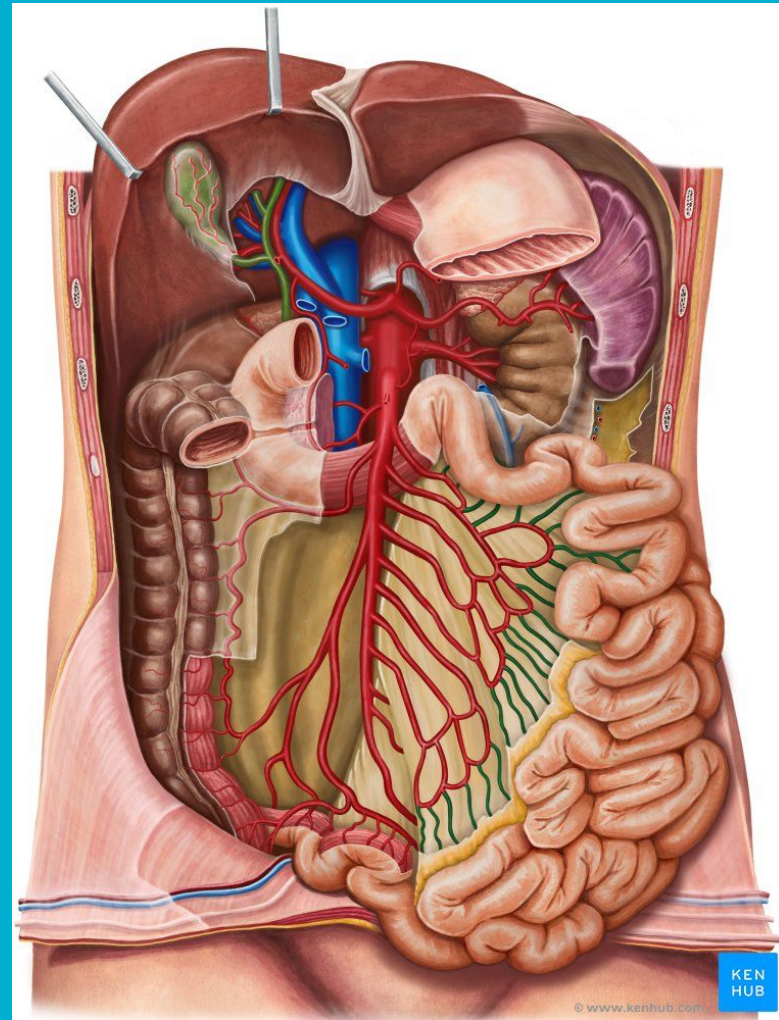
Small intestine –

The food leaves the stomach at certain intervals of time and enters into the small intestine. The small intestine is the longest part of the digestive system.



It is about 20 feet or seven meters long in an adult human. Small intestine is a highly coiled tube. It consists of three parts: duodenum, jejunum and ileum.

The inner wall of small intestine has finger like projections called villi which increases the surface area for absorption of food.



Villi INCREASE THE SURFACE AREA

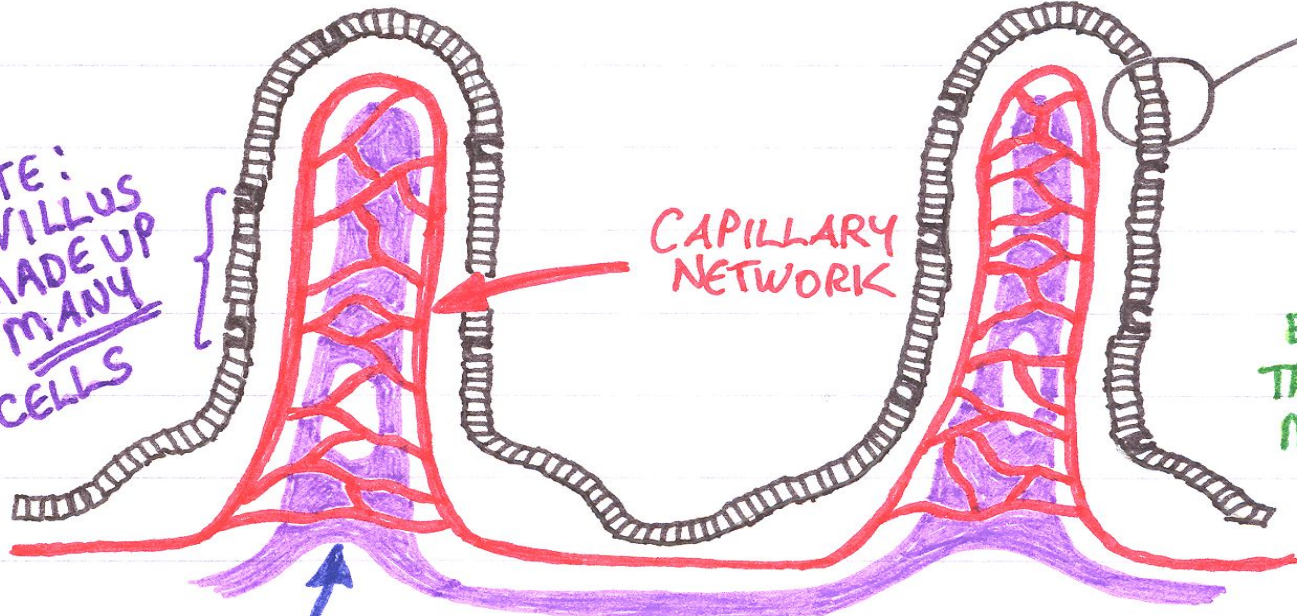
NOTE:
THE VILLUS
IS MADE UP
OF MANY
CELLS

CAPILLARY
NETWORK

EACH CELL IN
THE VILLUS HAS
MICROVILLI ON
ITS SURFACE

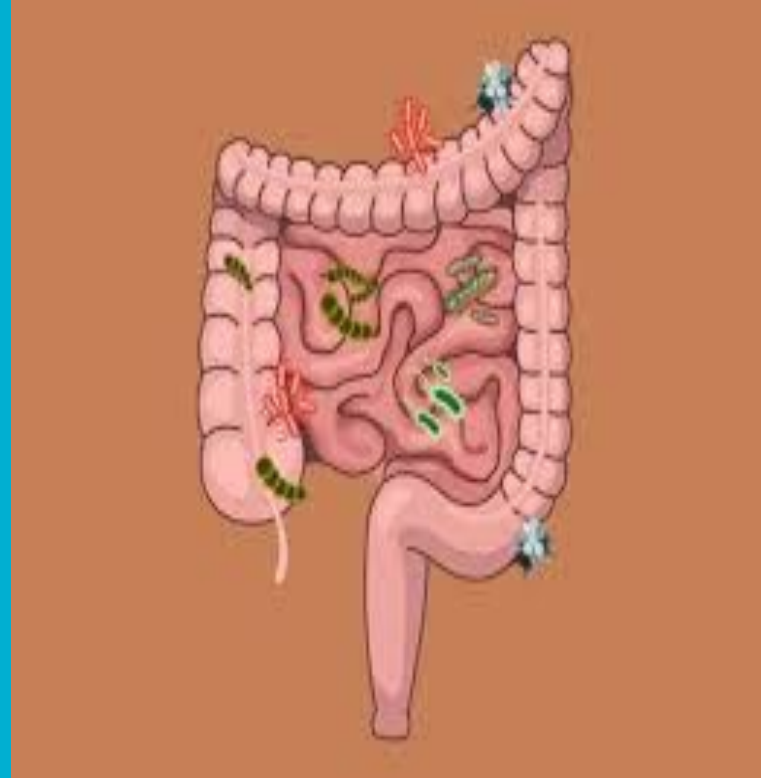
LACTEAL

FOUND IN THE SMALL INTESTINE



Large intestine

The digested food enters into large intestine after small intestine. The large intestine is wider and shorter than small intestine. It is about 1.5 metre in length.



PLENARY

Q. What is a carnivorous animal? Give two examples.

A. Animals, which eat the flesh of other animals, are called carnivorous, e.g. lion, tiger.

Q. What is the function of the digestive juice secreted by the liver?

A. The digestive juice from the liver breaks up fat into tiny particles.

ASSESSMENT

&

EVALUATION

Q. Name the parts of the alimentary canal where

- (a) water gets absorbed from undigested food
- (b) digested food gets absorbed
- (c) taste of the food is perceived
- (d) bile juice is produced

A. (a) large intestine

(b) small intestine

(c) tongue

(d) liver