small intestine and large intestine canal and is made up of the mouth, oropharynx, oesophagus, stomach The tube of organs is called the gastro-intestinal tract, or the alimentary

enzymes that aid in the chemical processes. The upper part is called the oropharynx, where are the tonsils at the back of each side of an arch tissue. An extension of the soft palate - the uvula hangs down into the called the palatine arch. hard palate, composed of bone, and the soft palate, composed of muscle are the tongue, teeth and three pairs of salivary glands, which produce movement through the pharynx and oesophagus. Within the mouth there membrane, which secretes mucus to mix with the food, facilitating its The mouth or oral cavity, the first part of the tract, is lined with a mucous

food into the oropharynx to begin the swallowing mechanism sweet, sour, salty and bitter. It helps in mixing food with saliva and pushes The tongue is covered with tiny taste buds that differentiate four tastes:

## The Oropharynx

simultaneously. and the entrances to the larynx and the oral and nasal cavities are closed muscular tissue contracts, food and fluid are directed into the oesophagus The oropharynx serves as a common pathway for food and air. When its

## The Oesophagus

stomach. Its walls alternately contract and relax (it is called peristalsis) moving food into the stomach. the trachea and heart, through the mediastinum and diaphragm to the The oesophagus is approximately 25 cm long and passes down behind

similar in that they have four layers. From the outside are: the peritoneum variations that occur are due to the functions of each portion. the muscle coat, the submucous coat and the mucous membrane. The The structures of the stomach, small intestine and large intestine are

### The Stomach

cavity. It is a hollow organ composed of three parts; the top part is called the fundus, the central and the largest portion is called the body, and the The stomach lies beneath the diaphragm and at the top of the abdominal

> produces some hormones (gastrin, enterogastrone) and gastric juices that help in digestion. The chyme then passes through the small intestine the intestine is known as the residue not been absorbed into the blood by the presence of villi on the surface of (which takes about 4 to 6 hours) into the large intestine. The food that has mixture called chyme, which is partially digested food. The stomach also leads to the mixing of food with gastric secretions to form a semisolic lower part is the pylorus. Stomach muscles are very strong; their contraction

# The Small Intestine

digestive enzymes and hormones It is the longest portion of the alimentary canal and is, divided into the duodenum, jejunum and ileum. It contains many glands, which secrete telenint study strough

# The Large Intestine

appendix, a slender blind tube, is attached to the caecum and is a frequent site of inflammation or infection (appendicitis). bowel. It consists of the caecum, colon, rectum and anal canal. The The large intestine has a greater diameter and is also called the large

bring about chemicals in food. digestion because food does not pass through these organs; instead they produce and store secretions that flow into the small intestine and The liver, gallbladder and pancreas are called accessory organs of the

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is closely related to the diaphragm. Blood flows through specialized cells by the peritoneum, except for a bare area on the posterior surface, which right hand side in the upper abdomen, beneath the diaphragm. It is covered in the liver called sinusoids. The liver is a large reddish brown wedge-shaped organ situated on the

water, calcium and sodium salts and bile pigments: bilirubin and biliverdin. toxic substances, stores glycogen, vitamins A, D, E, K, and B<sub>12</sub>, iron, and absorption of fats fluid formed in the liver by breaking down old red blood cells. It contains cholesterol, etc., and produces bile. The bile is an alkaline yellowish green The liver has many functions and is essential for life; it destroys many The bile salts activate pancreatic lipase and are necessary for the digestion