



THIRUTHANGAL NADAR COLLEGE

(Belongs to the Chennaivazh Thiruthangal Hindu Nadar Uravinmurai Dharma Fund)

Selavayal, Chennai-51.

A Self-Financing Co-educational College of Arts & Science

Affiliated to the University of Madras

Accredited with 'B' Grade by NAAC

An ISO 9001: 2015 Certified Institution

NAME OF THE DEPARTMENT: PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SUBJECT : ALLIED ZOOLOGY II

TOPIC : HUMAN PHYSIOLOGY

STAFF NAME : MS. A. JANAKI

Human Physiology

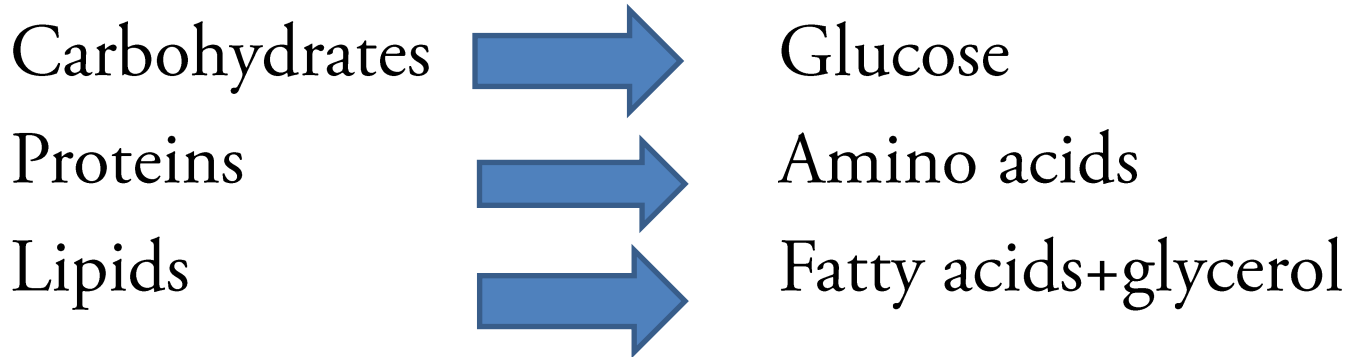
DIGESTION IN MAN

DIGESTION: The food materials taken into the alimentary canal undergo a complicated process which converts the complex and insoluble food materials into simple and soluble food materials. This process is called digestion.

Digestion is defined as a process that involves physical and chemical breakdown of insoluble complex food materials into soluble simple food materials.

Ctd..

During digestion,



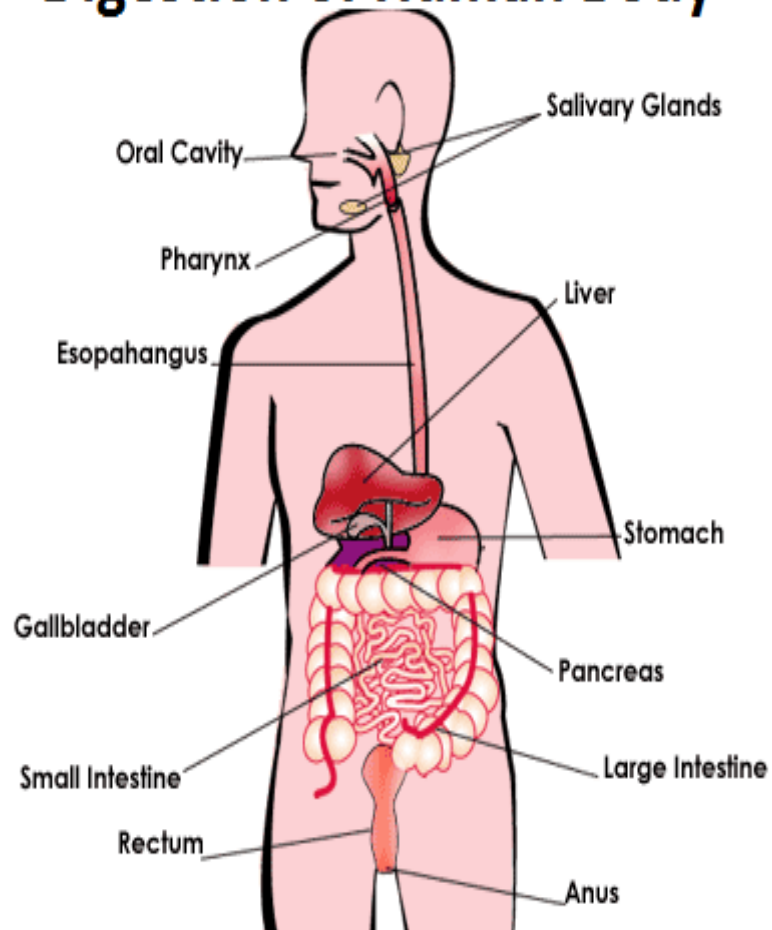
Digestion involves two process, namely physical or mechanical & chemical.

Digestion

- <https://youtu.be/Og5xAdC8EUI>

Digestion

List of Organs that helps in Digestion of Human Body

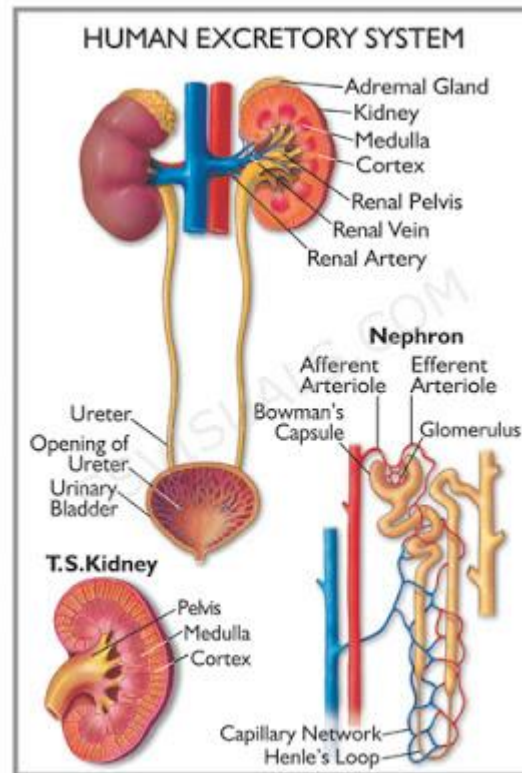


Digestive glands

The glands that secrete digestive juices of food are termed digestive glands

- Salivary glands
- Gastric glands
- Liver
- Pancreas
- Intestinal glands

Excretion



Excretion

- <https://youtu.be/EhnRhFLyOg>

Kidney Failure & Transplantation

- <https://youtu.be/L5mzAMU7pVM>
- <https://youtu.be/Or2pcS2a00w>

Working mechanism of Heart

- <https://youtu.be/CWFyxn0qDEU>
- <https://youtu.be/RYZ4daFwMa8>

Sphygmomanometer

Blood pressure is measured by

➤ Direct method

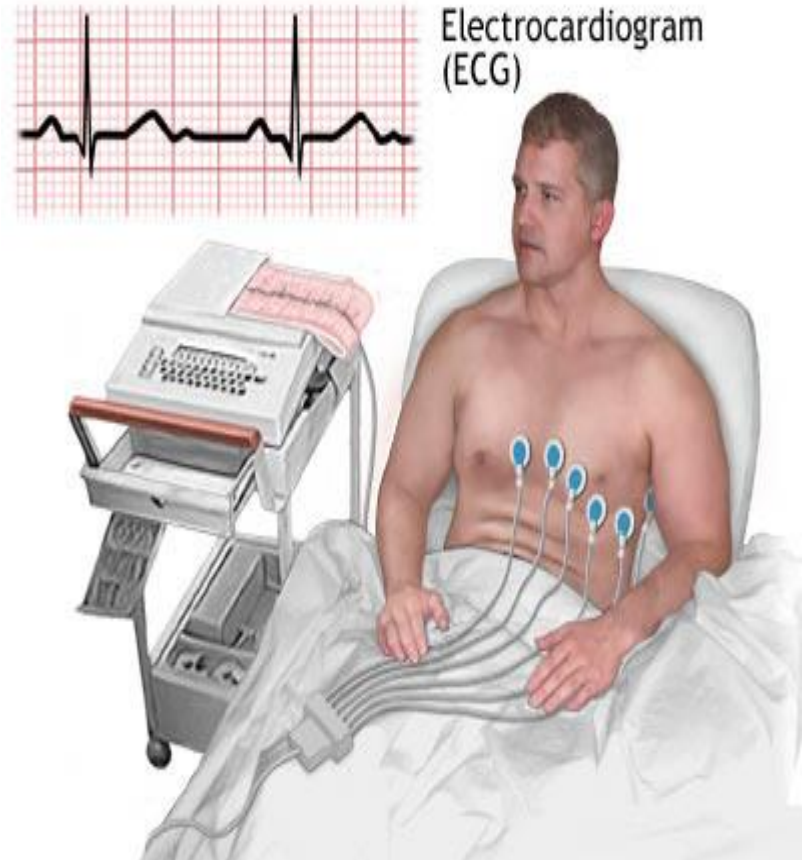
➤ Indirect method

➤ Sphygmomanometer is an instrument consisting of an inflatable rubber cuff which is applied to the arm and connected to a column of mercury next to a graduated scale, enabling the determination of systolic and diastolic blood pressure by increasing and gradually releasing the pressure in the cuff..



ECG

The ECG monitor displays the electric activities generated by the heart and gives a snapshot of the heart rate and rhythm during the test; however it does not reflect many underlying problems. Cardiac abnormalities may occur only intermittently and ECG needs to be performed at the "right" moment to capture the episodes. At other times, a patient may have entirely normal ECG



Endocrine systems in Human

The endocrine system is a chemical messenger system comprising feedback loops of the hormones released by internal glands of an organism directly into the circulatory system, regulating distant target organs. In humans, the major endocrine glands are the pituitary gland, thyroid gland and the adrenal glands.

HORMONES

