

# LIFE PROCESS

## DIGESTION+RESPIRATION





### 4 components of Life Process:

- Digestion
- Respiration
- Circulation
- Excreation





• Mucus membrane: protects inner delicate lining of stomach from gastric juice





#### Alimentary Canal: the whole passage along which food passes through

Liver and pancreas are not its part



Liver

·Liver converts glucose into glycogen and amino acids into proteins

It is of dark red brown colour

· Position: right of abdomen side

• Kupffer cells: star shaped phagocytic cells in the lining of liver sinusoids (They are involved in breakdown of RBCs)

It is the largest gland

• Hepatocytes: They are the major parenchymal cells of the liver responsible for various cellular functions

#### Villi

The finger-like projections in small intestine

· They help in increase of surface area for food absorption









- Network of air tubes for gas exchange in insects: Tracheae
- Present between lungs: Thymus gland
- Upper part of the respiratory tract with small hair-like structure: Cilia
- Fibre cannot be broken down by the GI tract, does not provide energy but helps the body get rid of wastes and keeps the intestinal tract healthy
- Metabolic reactions are carried out by: Protein

Anabolism: synthesis

Catabolism: break down

- Fluid secreted by new mothers during initial days of lactation, that boosts baby's immune system: Colostrum
- Indigestible portion of our diet: Roughage
- Pouch connected to the junction of small intestine and large intestine: Caecum
- Bariatric surgery brings changes in: Digestive system

Done in obese people

Organ that can regrow after damage: Liver





- Hardest part of hunman body: Enamel
  (Outer covered of teeth) made of Calcium phosphate
- Inner covering: Dentine
- · Strongest part of human body: Jaw
- Wisdom teeth: 3rd molar
- Elephant's outer teeth is known as tusk (incisors)
- Bird's beak: extended, modified form of teeth

• Dental formula: | C P M| C P M $\stackrel{=}{\xrightarrow{}} 2123$   $\rightarrow$  Adults

In children: Premolar absent
 3rd molar absent
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