Class : 11th Biology
Chapter- 16 : Digestion and Absorption

Digestion and Absorption

Disorders of Digestive System

Nutritional disorder
- Protein Energy Malnutrition-
- Kwashiorkor
- Marasmus

Indigestion
Improper digestion

Frequent defecation of liquid faeces

Vomiting
Ejection of stomach content

Jaundice
Disease of liver.

Constipation
Dry Stools

Digestive System

Digestive Glands

Salivary Gland
- Parotid
- Sublingual
- Submandibular

Intestinal Glands
- Crypts of Lieberkuhn
- Brunner's gland

Gastric Glands
- Mucus neck cell
- Peptic cells
- Parietal cells

Liver → **Secretes bile** Stored in Gallbladder

Pancreas

Alimentary canal

Histology
- Serosa
- Muscularis
- Sub-mucosa
- Mucosa

Parts
Mouth, Pharynx, Oesophagus Stomach, Small intestine, Large Intestine, Rectum, Anus.

GI hormones
- Gastrin
- Enterogastrone
- Secretin
- Cholecystokinin
- Villikinin
- Stomatostatin

Digestion of Food

Mechanical
- Teeth
- Tongue

Chemical
Trypsin, amylase, lipase, nuclease, maltase, lactase, sucrose

Calorific values

Gross
Carbohydrates: 4.1 kcal/g
Protein: 5.65 kcal/g
Fat: 9.45 kcal/g

Physiological
Carbohydrate: 4 kcal/g
Protein: 4 kcal/g
Fat: 9 kcal/g

Absorption Digested products
- Mouth: Certain drugs.
- Stomach: Water, simple sugars, some drugs and alcohol.
- Small intestine: Almost all nutrients including minerals, vitamins etc.
- Large intestine: Water, some minerals and some drugs.

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