- I. The Nervous System
 - Sections
 - Cerebrum: largest part of brain
 - Divided into left and right cerebral hemispheres by a deep grove called the longitudinal fissure
 - Diencephalon: area between cerebral hemispheres and brain stem
 - Includes the thalamus and the hypothalamus
 - o **Brain stem**: connects cerebrum and diencephalon with the spinal cord
 - Midbrain = upper portion
 - Pons=conncects midbrain and medulla
 - Medulla oblongata = connects brain and spinal cord
 - Cerebellum : « little brain »
 - Connected to cerebrum, brain stem, and spink cord by the pons
 s of brian and spinal cord es
 - Coverings of brian and spinal coverings
 - Meninges: 3 lawers of connective t ssue
 - uriounas brain and spinal cord
 - Thickest layer
 - Toughest layer
 - « hard mother »
 - arachnoid= middle layer
 - loosely attatched allowing for movement of cerebrospinal fluid
 - resembles a spider web
 - pia mater= innermost layer around brain
 - blood supply to brian is carried mostly by this
 - « tender/ soft mother »
 - Disorders of the Meninges
 - Meningitis= inflamation of the brain and spinal cord coverings
 - Caused by virus or bacteria
 - Epidural hematoma= arterial bleeding outside the dura mater

- crusting of skin
- early in childhood
 - D. Cancer
 - 1. melanoma = malignant
 - fastest growing in US
 - mole/ birthmark
 - 2. squamous cell carcinoma
 - slow growing
 - most common
 - 3. basal cell carcinoma
 - upper face
 - papules
 - 4. Kaposi's sarcoma

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Preview from 7 of 47
Page 7 of 47

Disorders of the Skeletal System

→ Osteoporosis lack of calcium salt deposits decrease in bone protien

→ Rickets

a rare childhood disorder in which the bones remain soft and distorted

→ Osteomyelitis

a bacterial infection that inflames the bone and muscle typically seen with staph infection

Structural Disorders – 3 types

→ Kyphosis

→ Lordosis

- upper vertabrae (hunch) Notesale.co.uk

dosis
- swaytate Page
lateral curvature

→ Osteoarthritis

inflamation of the bone at the joint

→ Subluxation

dislocation

→ arthritis

inflamation of the joint

rheumatoid- degenerative

 \rightarrow gout

big toe, men

build up of uric acid

Fracture:

simple (closed)- bone is broken into 2 pieces

Digestive System:

- Digestion: the breakdown process of food into particles small enough to pass through the plasma membrane of the cell
 - Absorbtion- the transfer of food into circulation
- The *digestive system* is divided into two groups of organs:
 - **Digestive tract** (muscular tube extending through body)
 - Mucuous membrane
 - Submucosa
 - Smooth muscle
 - Serous membrane
 - Organs:

e.co.uk Mouth/ oral cavity =

Functions

od – inaestion repares food for digestion Begi Sthe digestion of starch

Saliva- secretion produced by salivary glands and secreted into the mouth

- Preview from 3
 - Pharynx
 - The soft palate
 - Tissue that forms the back of the roof of the mouth
 - Uvula
 - Soft, fleshy, v-shaped mass
 - Bolus
 - Small portion of food mixed with saliva
 - Esophagus
 - Muscular tube about 25cm long
 - Food is lubricated by mucus and moved by perisalsis
 - Stomach

Apendix

- o no one understands its function
- defication
 - elimination of waste from the body
 - o aided by voluntary muscles of the diaphragm and abdominals
 - o diarrhea
 - « bursting forth »
 - abnormally frequent, watery bowl movements
 - o constipation
 - hard stools or trouble deficating

excessory glands

salivary gland

e.co.uk produces_sali of converting starch to

Previev t glandular organ of the body

- functions
 - storage of glucose
 - formation of blood plasma proteins
 - synthesis of urea
 - · modification of fats
 - · manufacture of bile
 - destruction of old red blood cells
 - by-product= bilirubin
 - detoxification of harmful substances
 - storage of vitamins and iron
- disorders
 - hepatitis
 - o inflamation of the liver
 - o A,B,C,D,E,G
 - Cirrhosis

I. Lymphatic System

~Pathway for the drainage of tissue fluid

- Lymphatic capillaries
 - Microscopic vessels that drain excess fluid that does NOT return to the heart
- Lymph
 - Tissue fluid that enters the lymphatic capillaries
- Lymph Nodes
 - o Series of filters where bacteria and other foreign particles are trapped/destroyed
 - Comparison is like an oil filter in your car
- Lacteals
 - Specialized lymphatic capillaries in the small intestine that act as a pathway for the transfer of digested fats into the Named according to location essents
 Mamary: breast
- Lymphatic Vessels

- Axillary all Axillary and breasts
- Inquinal= all lymph from the lower extremity
- Lyphatic ducts= drainage area for lymph
 - Right lymphatic duct= received only lyph from the URQ, right head, right neck, right thorx, and RU extremity
- EMPTIES INTO RIGHT SUBCLAVIAN VEIN
 - Thoracic duct= larger
 - Thoracic duct= larger
 - Receives lymph from all other body parts
 - First part of duct is enlarged to form a cistern (temporary storage pouch)
 - Chyle = milky fluid of fat and lymph
- Lymphoid tissue
 - Distributed throughout body and makes up specialized organs
 - Removes impurities
 - Processes lymphocytes

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Preview from A6 of 47
Page 46 of 47