

second year students

1. Vascular system .

- **Introduction.**
- **Blood vascular system .**
- **Capillaries .**
- **Type of capillaries (continuous and fenestrated) .**
- **Arteries . (Arteriole , small arteries , medium sized arteries ,Large elastic arteries) .**
- **Age changes in arteries . (Atherosclerosis) .**
- **Veins . (Venule , small vein , medium sized vein , large vein) .**
- **Vasa vasorum .**
- **Arterio-venous anastomoses . (Direct and indirect (Hoyer or Shunt**
- **The heart . Chambers , Layers (Endocardium , Myocardium and Epicardium) .**
- **Lymph vascular system . Lymph , Lymph capillaries and Lymph vessel**

2. The skin and its appendages .

- **Thick skin .**
- **Thin skin .**
- **Epidermis**
- **Dermis .**
- **Hair Follicle .**
- **Nail.**
- **Glands of skin (Sweat gland, Sebaceous gland)**
- **Sensory nerve endings (Pacinian and Meissners corpuscles) .**

3.Lymphatic system .

- **Lymphatic organs :-**
- **Lymph node .**
- **Pharyngeal tonsil .**
- **Palatine tonsils .**
- **Spleen .**
- **Thymus .**

4. Heamopoiesis .

5. Digestive system

- Introduction .
- General function.
- Oral cavity :- Lip , Tongue , cheek , Teeth , Gum , Hard palate , soft palate .
 - The salivary glands .
 - Esophagus .
 - Stomach . (Cardiac , Fundic, Pyloric ,) .
 - Small intestine (Duodenum , Jejunum , Ileum)
 - Peyers patches .
- Large intestine . (Ceacum , colon , rectum , Anal canal) .
 - Appendix .
 - Associated glands (Liver , Pancreas, Gall bladder)

6. Nervous system.

- Introduction .
- Types of neuron .
- Classification.
- Peripheral nervous system . (Nerves and ganglia) .
 - Cranio – spinal ganglia ,
 - Autonomic ganglia .
- Central nervous system .
 - Spinal cord .
 - Cerebrum .
 - Cerebellum .
 - Meninges .
 - Dura matter .
 - Blood brain barrier .
 - Choroids plexus .

Respiratory system

Respiratory epithelium .

- The cell types of respiratory epithelium .
- Nasal cavity .
- Vestibule .

- **Nasal fossae.**
- **Para nasal sinuses .**
- **The larynx .**
- **The trachea .**
- **The lungs .**
- **Bronchial tubes .**
- **Bronchioles .**
- **Alveolar duct**
- **Alveoli .**
- **Respiratory membrane .**

The endocrine system .

Introduction .

- **Definition of endocrine glands .**
- **Types of endocrine glands .**
- **Types of secretion .**
- **Pituitary gland .**
- **Thyroid gland .**
- **Parathyroid gland .**
- **Adrenal gland (Supra renal).**
- **Pineal body .**
- **(Introduction ,Structure , function) .**

The urinary system

- **Introduction .**
- **The kidneys .**
- **Structure .**
- **The excretory passages of the kidney . (The nephron).**
- **Ureter .**
- **urinary bladder .**
- **Male urethra .**
- **Female urethra .**
- **Introduction .**
- **The ovaries .**
- **Types of the follicles .**

- Development of ovarian follicles .
- Atretic follicle .
- Corpus luteum of ovarian cycle .
- Corpus luteum of pregnancy .
- Corpus albicans .
- Ovulation .
- The uterine tube (Fallopian tube) .
- The uterus .
- The Menstrual cycle .
- The cervix .
- The Vagina .

Mammary glands .

1 Introduction .

- Areola and nipple .
- Structure .
- Duct system .
- Inactive mammary glands .
- Mammary gland during pregnancy .
- Lactating mammary gland .

Male Reproductive system .

- Introduction .
- Parts of male reproductive system .
- - Testis .
- Seminiferous tubules .
- Genital ducts (Rete testis , Ductuli afferents , Ductus epididymis,Ductus deferens , Ejaculatory duct .
- Accessory glands associated with male reproductive system.
- Prostate gland .
- Seminal vesicles .
- The penis.
- Semen .

Special sense organs .

- **The eyes .**
- **Introduction .**
- **Layers of the eye . (Corneo – sclera, U vea layer Ciliary’s portion & choroids) , The retina .**
- **Chambers of the eye .**
- **Iris .**
- **Lens .**
- **Schlemm canal .**
- **Lacrimal gland .**

The ear .

- **Introduction .**
- **External ear , Middle ear , Inner ear .**