1st Year
Basic Anatomy

Objectives

At the end of the Anatomy course, the students should be able to:

- Mention the basic components/ structure of human body
- Locate the different important organs through which human body maintain its normal body functions.
- Demonstrate the knowledge of anatomy which will help the students as anatomy serves as an important link to understand other basic subjects, para clinical and clinical subjects
- Demonstrate knowledge of Anatomy which will help them in professional life as an ideal medical assistantship job.

List of Competencies

Learning of Anatomy provide better understanding of human body structure and thereby mechanism of body functions. This knowledge helps as building block for better understanding of para-clinical and clinical subjects.
In the process of completing these courses students acquire the following competencies.

1. Describe the different anatomical positions and planes of the body
2. Identify cell and tissue, differentiate them, name different types of cell and tissue
3. Demonstrate the different parts of Respiratory Tract and Cardiovascular organ
4. Describe the vascular system of the body, Mention the parts of heart and circulatory system of heart
5. Locate, tonsil, spleen and lymph nodes
6. Identify the location of para-nasal sinuses
7. Describe the location of different gastro intestinal organs in different regions of abdomen
8. Identify the anatomical position of urogenital organs
9. Identify different bones, joints and muscles involved in gross movement of the body
10. State about structures of skin which enable them to take septic measures and management of superficial wound healing
11. Location of the endocrine glands responsible for important functions of the body
12. Identify important parts of brain, eyeball, ear, location and distribution of cranial nerves and important peripheral nerves.

Subject : Basic Anatomy

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
1. General Body Structure a. Anatomical Positions, Anatomical planes b. Cell c. Tissue d. Systems of the body	At the end of the session the students will be able to : 1. define anatomy, state different anatomical positions and planes, e.g. anterior, posterior, medial, lateral, proximal, distal, median plane, sagittal planes, coronal and transverse planes 2. draw a cell & label its structures 3. define and classify the basic tissues in the body. 4. mention the structure, distribution of the following tissue: epithelial tissue, connective tissue, muscular tissue, nervous tissue 5. name the different systems of human body	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteer.	**Total-24 hours** Lec.- 10 hrs Tutorial-4 hrs Practicfal -2 hrs Dissection & others-8 hrs	Written SAQ Oral + Practical
2. Cardio-vascular system a. Different parts of heart b. Main blood vessels of the heart c. Main blood vessels of the body	At the end of the session the students will be able to : 1. identify & demonstrate the surfaces , borders, parts, chambers of the heart. 2. mention the anatomical functions of the heart. 3. name the main arteries & veins of the heart & draw their surface marking on a living body. 4. mention the main arteries (peripheral) supplying limbs, head-neck and other important body organs (Liver, kidney, gut)	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	**Total-28 hours** Lec.- 10 hrs Tutorial-4 hrs Practical -4 hrs Dissection & others-10 hrs	Written (SAQ) Oral + Practical
3. Respiratory System a. Parts of respiratory Tract b. Paranasal Sinuses	At the end of the session the students will be able to : 1. Identify & mention the parts of the respiratory tract & mention their functions. 2. locate the position & functions of paranasal sinuses 3. draw & label the bronchial tree and mention their functions	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	**Total-24 hours** Lec-10 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-10 hrs	Written (SAQ) Oral + Practical

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4. Digestive System a. Regions of abdomen b. Parts of Alimentary Tract c. Surface Marking of gastrointestinal organs	At the end of the session the students will be able to : 1. draw & name 9 (nine) anatomical regions of the abdomen on living body (surface Marking) 2. draw & name different parts of G I tract 3. draw surface markings of the following : Stomach, Duodenum, liver, Gall bladder, Spleen, pancreas, vermiform appendix	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD,volunteers	**Total-30 hrs** Lec.- 12 hrs Tutorial-2 hrs Practical -4 hrs Dissection & others-12 hrs	Written (SAQ) Oral + Practical
5. Skin & Musculo-skeletal System a. Skin b. Bones c. Joints	At the end of the session the students will be able to : 1. Mention the layers of skin 2. list the functions of the skin 3. classify bones 4. name & identify main bones of the human skeleton 5. function of bones 6. classify main types of joints 7. name & identify main joints of the human body 8. identify the major muscle groups on the body as extensors, flexors, abductors, adductors	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	**Total-27 hours** Lec.- 11 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-12 hrs	Written (SAQ) Oral + Practical
6. URO-Genital System a. Parts of the Urinary tract b. Parts of the genital tract	At the end of the session the students will be able to : 1. draw & label the different parts of urinary system 2. draw & label the different parts of reproductive system – both male and female. 3. draw & label the different parts of right & left kidney and their relation to other structures of the body. 4. describe parts and anatomical relation/position of urethra- male/female draw the surface marking of : Kidney, ureter, bladder, vas deferens	Lecture Tutorial Practical Dissection & others	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	**Total-27 hrs** Lec.- 11 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-12 hrs	Written (SAQ) Oral + Practical

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7. Nervous System a. Brain & its parts b. Central & Peripheral Nervous system c. Functions of Cranial nerves d. Eyes & Ear	At the end of the session students will be able to : 1. classify nervous system 2. identify following areas of the brain on a model: cerebrum, cerebellum, mid brain, pons, medulla oblongata , basal ganglia, hypothalamus, thalamus. 3. name & mention the function of cranial nerves, spinal cord 4. mention the main peripheral nerves & their surface marking 5. mention the layers of meninges. 6. name & identify structures of eye on a model. 7. identify the external, middle, internal ear & tympanic membrane.	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	**Total-24 hrs** Lec.- 10 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-10 hrs	Written (SAQ) Oral + Practical
8. Endocrine system a. Endocrine Glands	At the end of the session students will be able to 1. define endocrine gland 2. identify the location of pituitary glands, thyroid, adrenal glands, ovary, testis, islets of langerhans of pancreas	Lecture Tutorial Practical Dissection & others	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	**Total-16 hrs** Lec.- 6 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-6 hrs	Written (SAQ) Oral + Practical