FOUNDATION UNIVERSITY COLLEGE OF DENTISTRY, ISLAMABAD

ANATOMY DEPARTMENT
Student's Study Guide
YEAR: 2025

MISSION OF DEPARTMENT

Mission

- To educate scholars about anatomical basis of diseases in integration with other basic and clinical sciences at undergraduate and postgraduate level so that they can display excellence in professional growth, academics, research and delivery of medical care to the community.
- To produce dedicated and updated faculty in the field of anatomy.
- To conduct high quality research for publication in impact factor journals.

BROAD OBJECTIVES OF ANATOMY

At the end of the first year, BDS student should be able to know:

- The principles of general histology.
- The basics of general embryology.
- The gross, microscopic and developmental anatomy of head and neck, Brain & Spinal cord.
- The gross anatomy of Thoracic region.
- Histology and development of Respiratory system (uptill trachea) and GIT (uptill esophagus)
- Histology of Endocrine system.

NO OF STUDY HOURS OF SUBJECT

Total weeks= 33

Topics	MIT	Total Hours	Total hours
General anatomy General histology Special histology General embryology Special embryology Neuroanatomy Gross anatomy: - • Head & Neck • Thorax	LGIS 3 lectures /week=99	33x3=99	99
	SGIS (Demonstration) 3 demo/week=99	99x1.5=148.5	148.5
	SGIS (Practical) 1 practicals/week= 33	33x1.5	49.5
Miscellaneous	**SDL + Assignments**	33 + **40**	73
	Total Hours		370

Assessment hours=10+10+10(TERM 1+TERM 2+SEND UP)
Grand total=370+30=400 hours

FACULTY OF DEPARTMENT

Head of department: Prof. Dr. Huma Musarrat Khan

Faculty members:

- Professor Dr. Saadia Rashid
- Dr. Umaima Naveed, Demonstrator
- Dr Laraib Shahid. Demonstrator

Table of Specification for First Term

Total marks=80

Region	Topics	MCQ'S	SEQ's
General Anatomy	Anatomical nomenclature – descriptive terms	8	1
	Bones		
	Joints		
	Muscles		
	Circulatory System		
	Nervous system		
General Histology	Microtechniques	12	
	Cell		
	Epithelial tissue		
	Connective Tissue		
	Cartilage		
	Bone		
	Muscle		
	Skin		
Gross Anatomy(Head and neck)	Skull Cervical Vertebrae (typical & atypical) Cervical fascia. Deep dissection of neck (oesophagus, trachea & great vessels) Anterior triangle of neck Posterior triangle of neck Thyroid gland & prevertebral region Nerves of neck & cervical plexus Lymphatic drainage of head & neck and root of neck. Scalp & Temple. Muscles & arteries of face Parotid region. Mandible & Hyoid bone. Submandibular region. Temporal Region Infratemporal fossa Pterygopalatine fossa Temporomandibular joint. Eyelids, lacrimal apparatus & muscles of orbit Nerves & vessels of orbit & Eye ball External & middle ear. Bony labyrinth and internal ear Larynx External nose, nasal cavity & paranasal sinuses. Later wall of nose Mouth, palate & tongue Pharynx Vertebral canal, joints & surface anatomy Radiographs	20	2 5
	Total marks	**40**	**40**

Table of Specification for First Term

(PRACTICAL)

Total marks=40

Station	Educational content	Instructional objectives	marks	Time spent on station	Total marks for each station
1	General anatomy	1) Surface marking from head and neck region 2) Identify the type of joint, muscle, or bone	2 2	2.5 minutes	4
2	Gross anatomy	1) identify the marked points on skull/Mandible/cervical vertebrae 2) Identify marked points on radiograph	2.5 1.5	2.5 minutes	4
3	Gross anatomy	1) Identify the marked points on ear Model 2) Question	3 1	2.5 minutes	4
4	Gross anatomy	1) Identify the marked points on Face Model 2) Question	2.5 1.5	2.5 minutes	4
5	Gross anatomy	1) Identify the marked points on larynx Model 2) Question	2 2	2.5 minutes	4
6	Gross anatomy	1) Identify the marked points on eye Model 2) Question	2.5 1.5	2.5 minutes	4
7	Gross anatomy	1) Identify the marked points on neck Model 2) Question	3 1	2.5 minutes	4
8	Gross anatomy	1) Identify the marked points on saggital section of face Model 2) Question	3 1	2.5 minutes	4

Station	Educational content	Instructional objectives	marks	Time	Total marks for each station
9	Microscopic histology station	1) Identify the slide and give two points of identification 2) Identify the slide and give two points of identification	1+1 1+1	2.5 minutes	4
10	Microscopic histology station	1) Identify the slide and give two points of identification 2) Identify the slide and give two points of identification	1+1 1+1	2.5 minutes	4

Table of Specification for Second Term

Total marks=80

Region	Topics	MCQ'S	SEQ's
Histology	Nervous system	10	2
	Circulatory system		
	Lymphoid organs & cells of immune system		
	Respiratory System(uptil trachea)		
General Embryology	Gametogenesis	10	2
	First week of Development		
	Second week of Development		
	Third week of Development		
	Organogenetic Period (4^{th} to 8^{th} week)		
	Fetal Period (9^{th} week to birth)		
	Placenta and Fetal Membranes		
	Human Birth Defects		
Neuroanatomy	Skull Meninges &Subarachnoid Cisterns Spinal cord Medulla Oblongata Pons Midbrain Cerebellum Fourth Ventricle Internal capsule & cerebrum Cerebral Lobes (Sulci and Gyri) Lateral Ventricle Cortical areas, white matter Thalamus Hypothalamus Third Ventricle Reticular Formation Basal Ganglia Limbic System Blood Supply of brain Cerebrospinal Fluid & barrier	**20**	**4**
	Total	**40**	**40**

Table of Specification for Second Term

(PRACTICAL)

Total marks=40

Station	Educational content	Instructional objectives	marks	Time spent on station	Total marks for each station
1	Neuroanatomy anatomy	1) Identify the marked points on Skull 2) Identify the foramen and name one structure passing through it.	3 1	2.5 minutes	4
2	Neuro anatomy	1) identify the marked points on inferior surface of brain 2) Question	2.5 1.5	2.5 minutes	4
3	Gross anatomy	1) Identify the marked points on scan of brainstem (medulla, pons or midbrain) 2) Question	3 1	2.5 minutes	4
4	Gross anatomy	1) Identify the marked points on sagittal section of brain 2) Question	3 1	2.5 minutes	4
5	Gross anatomy	1) Identify the marked points on brainstem Model 2) Question	3 1	2.5 minutes	4
6	Gross anatomy	1) Identify the marked points on cerebellum and on the structures in the inferior horn of brain 2) Question	3 1	2.5 minutes	4
7	General embryology	1) Identify the marked points on embryo scan 2) Identify the anomaly along with embryological basis	3 1	2.5 minutes	4
8	General Embryology	1) Identify the marked points on embryo Models 2) Question	3 1	2.5 minutes	4

Station	Educational content	Instructional objectives	marks	Time	Total marks for each station
9	Microscopic histology station	1) Identify the slide and give two points of identification 2) Identify the slide and give two points of identification	1+1 1+1	2.5 minutes	4
10	Microscopic histology station	1) Identify the slide and give two points of identification 2) Identify the slide and give two points of identification	1+1 1+1	2.5 minutes	4

Table of Specification for Sendup / Prof

Region	Topics	MCQ'S	SEQ's
General Anatomy	Anatomical nomenclature – descriptive terms	2	1
	Bones		
	Joints		
	Muscles		
	Skin		
	Autonomic Nervous System		
	Circulatory System		
General Histology	Histology and its Methods of Study	4	2
	Cell		
	Epithelial tissue		
	Connective Tissue		
	Cartilage		
	Bone		
	Muscle		
	Skin		
	Nervous system		
	Circulatory system		
	Lymphoid organs & cells of immune system		
Special Histology	Endocrine system	3	
	Respiratory System (up-till Trachea)		
	Digestive system (up-till Oesophagus)		
	Organs of special senses (Eye and Ear)		
General Embryology	Gametogenesis	5	2
	First week of Development		
	Second week of Development		
	Third week of Development		
	Organogenetic Period (4^{th} to 8^{th} week)		
	Fetal Period (9^{th} week to birth)		
	Placenta and Fetal Membranes		
	Human Birth Defects		
Special Embryology	Development of Respiratory System (up-till trachea)	5	
	Development of Integumentary System		
	Development of Nervous system		
	Development of Head & Neck		
	Development of Special senses (Eye and Ear)		
	Development of GIT till Esophagus		
	Development of Neurocranium		
Gross Anatomy	Head & neck	10	3
	Brain	8	2
	Thorax	3	
	Total	**40**	**10**

Table of Specification for Sendup / Prof Exam
Practical

Station	Educational content	Instructional objectives	marks	Time spent on station	Total marks for each station
1	Gross anatomy	1) Identify the marked points on X-ray 2) Identify the marked point on heart model 3) Surface marking 4) General Anatomy	1.5 1 1 0.5	3 minutes	4
2	Neuro anatomy/Gross head and Neck	1) Identify the marked points on skull (cranial fossa/normas) 2) Identify the marked points on Mandible	3 1	3 minutes	4
3	Neuro anatomy	3) Identify the marked points on brain model 4) Question	3 1	3 minutes	4
4	Neuro anatomy	1) Identify the marked points on scan of brain 2) Identify the marked points on brain model	2 2	3 minutes	4
5	Gross anatomy	1) Identify the marked points on viscera (eye, ear, larynx, nose)	4	3 minutes	4
6	Gross anatomy	1) Identify the marked points on of face/Neck model	4	3 minutes	4
7	Special embryology	1) Identify the marked points on embryo scan 2) Identify the anomaly along with embryological basis	3 1	3 minutes	4
8	General Embryology	1) Identify the marked points on embryo Models/scan 2) Question	3 1	3 minutes	4

Station	Educational content	Instructional objectives	Marks	Time	Total marks for each station
9	Microscopic Genaral histology station	1) Identify the slide and give two points of identification 2) Identify the slide and give two points of identification	1+1 1+1	3 minutes	4
10	Microscopic Special histology station	1) Identify the slide and give two points of identification 2) Identify the slide and give two points of identification	1+1 1+1	3 minutes	4

OBJECTIVES OF ANATOMY

	Topics	Objectives At the end of session students should be able to:	MIT	ASSESMENT TOOL
General anatomy	**Introduction to Anatomy**	• Define the terms commonly used in Anatomy. • Define types of movements, planes and axis • Describe the structures met in dissection.	LGIS/SDL	MCQ SEQ OSPE
	Muscle	• Classify muscles • Describe general features of muscles.		
	Bone	• Classify bones • Describe general features of bones and types of Ossification • Blood supply of bone		
	Circulatory System	• Outline general anatomy of Vascular system. • Differentiate between different types of vessels		
	Joints	• Classify joints • Describe the structure, blood supply, lymphatics and movements around synovial joints		
	Nervous system	• Describe general features of the Nervous system. • Classify the Nervous system. • Describe the characteristic features different subdivisions of the nervous system • Describe the formation of the Common spinal nerve		
General histology	**Micro techniques**	**Theory** • Describe the steps involved in tissue processing. • Explain the functions of different parts of light microscope. • Define resolution. • Describe the principle and usage of Phase contrast microscope, polarizing microscope, conofocal microscope, fluorescence microscope, transmission electron microscope, scanning electron microscope.	**LGIS/SDL**	**MCQ** **SEQ**
		Practical • Identify and draw the different parts of microscope and illustrate their usage. • Focus the prepared slide at different magnifications	**SGIS**	**OSPE**
	Cell & Nucleus	• Define cell and describe the two main	LGIS/SDL	MCQ

		types of cells. • Describe the ultrastructure and functions of plasma membrane, mitochondria, ribosomes, endoplasmic reticulum, Golgi complex, lysosomes, proteasomes and peroxisomes of cell. • Explain the process of phagocytosis. • Explain the process of Signal Reception. • Describe the structure and types of cytoskeleton and cell inclusions • Describe the ultra structure of nuclear envelope, chromatin and nucleolus. • Illustrate cell cycle, and Apoptosis.		SEQ
	Epithelium	**Theory** • Describe specialization of cell surfaces: Basal lamina,basement membrane, intercellular adhesions and junctions, microvilli, stereocilia and cilia. • Explain the types of epithelium with examples. • Describe Glandular epithelium. • Differentiate the structure of serous and mucus secreting cells	**LGIS/SDL**	MCQ SEQ
		Practical • Identify different types of epithelia. • Draw a labeled diagram of different types of simple epithelia. • Identify Mucous and Serous acini. • Draw a labeled diagram of Mucous and Serous acini	**SGIS**	**OSPE**
	<u>Connective tissue</u>	**Theory** • Describe different types of cells in connective tissue • Describe different types of fibers in connective tissue • Discuss various constituents of ground substance • Classify various types of connective tissue • Describe the histology of different types of adipose tissue	**LGIS/SDL**	MCQ SEQ
		Practical • Identify the microscopic structure of Loose connective tissue, adipose tissue ,dense regular and irregular connective tissue • Draw a labeled diagram showing the microscopic structure of loose connective tissue, dense regular and irregular connective tissue	**SGIS**	**OSPE**

	Cartilage	**Theory** • Describe microscopic features of various types of cartilage	**LGIS/SDL**	MCQ SEQ
		Practical • Identify different types of cartilage microscopically • Draw a labeled diagram showing the histological structure of different types of cartilage	**SGIS**	**OSPE**
	Bone	**Theory** • Describe microscopic features of bones and types of Ossification	**LGIS/SDL**	MCQ SEQ
		Practical • Identify different types of bone microscopically • Draw a labeled diagram showing the histological structure of different types of bone	**SGIS**	**OSPE**
	Muscle	**Theory** • Describe the microscopic features of skeletal, smooth and cardiac muscle	**LGIS/SDL**	MCQ SEQ
		Practical • Identify different types of muscles microscopically • Draw a labeled histological diagram of different types of muscles	**SGIS**	**OSPE**
	Skin	**Theory** • Discuss layers & cells of epidermis & dermis • Describe blood vessels & nerves of skin • Describe microscopic features of skin appendages	**LGIS/SDL**	MCQ SEQ
		Practical • Identify different types of skins microscopically • Draw a labeled histological diagram of different types of skins	**SGIS**	**OSPE**
	Circulatory system	**Theory** • Discuss the histology of different arteries, veins and capillaries and lymph vessels	**LGIS/SDL**	MCQ SEQ
		Practical • Identify different types of arteries, veins and capillaries and lymph vessels. • Draw a labeled histological diagram of different arteries, veins and capillaries and lymph vessels	**SGIS**	**OSPE**
	Lymphoid tissue	**Theory** • Describe the histology and distribution of the cells of the lymphoid system in	**LGIS**	MCQ SEQ

		the body.. • Explain the histology of tonsils, thymus, lymph node and spleen		
		Practical • Identify palatine and pharyngeal Tonsils, thymus, lymph node and spleen microscopically • Draw a labeled histological diagram of palatine and pharyngeal Tonsils, thymus, lymph node and spleen microscopically	**SGIS**	**OSPE**
	Nervous tissue	**Theory** • Classify types of Neurons. • Outline the microscopic structure of a nerve cell body (Nucleus and Cytoplasm). • Describe the microscopic structure of a nerve cell processes. • Describe Membrane potential and the process of axon transport (Antegrade& Retrograde). • Describe types of Synapses and their histology. • Explain the histology of different types of Glial cells. • Describe the histology of Meninges. • Describe the histology of Choroid Plexus. • Describe the microscopic structure of myelinated and unmyelinated nerve fibers. • Describe the microscopic structure of Sensory and Autonomic ganglia. • Classify Receptor nerve endings. • Describe the microscopic structure of different Receptor nerve endings • Classify effector nerve endings. • Describe briefly the microscopic features of neuromuscular junctions. • Illustrate the microscopic structure of Spinal cord, cerebral cortex, cerebellum	**LGIS/SDL**	MCQ SEQ
		Practical • Identify and draw peripheral nerve, spinal cord, sensory ganglia, autonomic ganglia, cerebral cortex and cerebellum	**SGIS**	**OSPE**
SPECIAL HISTOLOGY	**Respiratory system**	**Theory** • Describe the histology of Nasal cavity + Paranasal sinuses. • Describe the histology of epiglottis, Larynx, Trachea.	**LGIS**	MCQ SEQ

		Practical • Identify the slide of epiglottis, Larynx, Trachea.	**SGIS**	
	Endocrinology	**Theory** • The cellular organization of pars distalis, pars tuburalis, intermedia and nervosa • The histology of different zones of adrenal cortex and medulla • The cytoarchitecture of parenchyma of thyroid & parathyroid gland • The histology of pineal gland **Practical** • Identify The features in histological slides of Pituitary gland on light microscope • The features in histological slides of adrenal gland • The features in histological slides of thyroid and parathyroid gland • The features in histological slides of pineal gland	**LGIS** **SGIS**	MCQ SEQ **OSPE**
	GIT	**Theory** • The general organization of wall of digestive tract and histology of lips, cheeks, oral cavity, palate and pharynx • The microscopic structure of tongue, different types of papillae and taste buds • The histological organization of wall of esophagus **Practical** Identify and draw • The features in histological slides of Lip and tongue • The features in histological slides of esophagus	**LGIS** **SGIS**	MCQ SEQ **OSPE**
	Special senses	**Theory** • Describe the histology of various layers of eye ball. • Describe the histology of lens, vitreous body & retina. • Describe the histology of conjunctiva, eyelids and lacrimal apparatus. • Describe the histology of external and middle ear and internal ear **Practical** • Identify microscopic slide of eyelid • Draw a labeled microscopic slide of	**LGIS** **SGIS**	MCQ SEQ **OSPE**

		eyelid • Identify microscopic slide of retina. • Draw a labeled microscopic structure of retina. • Identify microscopic slide of cornea. • Draw a labeled microscopic structure of cornea. • Identify microscopic slide of ear • Draw a labeled microscopic structure of ear		
	General Embryology	• Describe the historical background of embryology. • Define and explain the terms commonly used in embryology. • Describe the process of Mitosis & Meiosis and its importance. • Describe the process of Gametogenesis: Spermatogenesis and maturation of sperms. • Describe the process of Ogenesis, Phases of fertilization. • Describe cleavage, formation of Blastocyst&Implantation. • Describe the formation of bilaminar germ disc with amniotic cavity and yolksac. • Describe the development of Chorionic sac. • Describe the process of Gastrulation and the formation of germ layers. • Describe the formation and fate of primitive streak. • Describe the formation of Notochordal process and Notochord. • Describe the formation of allantois. • Describe the process of Neurulation. • Describe the formation of Neural plate, neural tube and neural crest cells. • Enumerate the derivatives of neural crest cells. • Describe the development of Intraembryonic coelom. • Describe the early development of CVS. • Describe the formation of Primary, secondary and tertiary chorionic villi. • Describe the Folding of the embryo in the median plane. • Describe the Folding of the embryo in the horizontal plane. • Enumerate the derivatives of Germ	**LGIS/SDL**	MCQ SEQ OSPE

		layers. • Describe the highlights of 4th to 6th week of development. • Describe the highlights of 7th to 8th week of development. • Discuss the various methods of estimating fetal age. • Describe the highlights of fetal period. • Calculate the expected date of delivery. • Describe the factors influencing fetal growth. • Describe the development of deciduas. • Describe the development of placenta. • Discuss the functions of placenta. • Describe the development of umbilical cord. • Describe the composition, circulation and significance of amniotic fluid. • Describe the development of yolksac and allantois. • Describe the types of multiple pregnancies. • Define congenital anomalies. • Classify and give examples of the types of birth defects. • Discuss the common teratogenic agents. • Describe the principles of Teratology.		
SPECIAL EMBRYOLOGY	**Skin**	• Describe the embryological origin of skin & its appendages	LGIS	MCQ SEQ OSPE
	Respiratory System	• Trace the development of Nasal cavity + Paranasal sinuses. • Trace the development of Larynx. • Trace the development of Trachea and describe briefly the Common Congenital anomalies.	LGIS	
	GIT	**Describe** • Derivates of foregut with development of oesphagus	LGIS	
	NEAUROCRANIUM .	Describe the Development of Vertebral column & Cranium Explain the etiology of different types of brachycephaly, scaphocephaly & spina bifida in the light of normal development of Neuro-cranium, Viscero-cranium & Vertebral Column		
	CNS	• Describe the development of Spinal cord, its ganglia and meninges. • Describe the positional changes of the	LGIS	

		spinal cord. • Describe the process of myelination of nerve fibers with its clinical application • Describe the Development of Myelencephalon ,Metencephalon , Mesencephalon, • Prosencephalon along with Clinical correlates. • Describe briefly the development of cranial nerves. • Describe briefly the development of Autonomic nervous system • Outline the Pathways of various cranial nerves,trace their nuclei, central connections		
	Special Senses	• Describe the development of various layers of eye ball. • Describe the development of lens, vitreous body & retina.. • Describe the development of external and middle ear and internal ear	LGIS	MCQ SEQ OSPE
	Head & Neck	• Development of pharyngeal arches • Development of tongue, pituitary and thyroid gland	LGIS	MCQ SEQ OSPE
GROSS ANATOMY	**Brain**	• Describe the salient features and relations of interior of the skull. • Describe the attachments, reflections, nerve supply and blood supply of Dura mater, Arachnoid mater and Pia mater. • Describe the various sub arachnoid cisterns with the clinical correlates. • Describe the gross structure of spinal cord. With Discuss clinical correlates. • Describe the anatomical organization of Pain, ,temperature , Touch and Pressure pathways. • Describe the anatomical organization of discriminative touch, vibratory and muscle joint sense of positioning With Clinical correlates. • Describe the anatomical organization of Joint sense pathways and visceral sensory tracts. • Describe the anatomical organization of Descending tracts of spinal cord With Clinical correlates. • Describe the superficial vessels on the base of the brain. • Describe the gross anatomy of medulla Oblongata.	LGIS/ SGIS/SDL	MCQ SEQ OSPE

		• Describe and draw the anatomical organization of structures present in sections at the different levels • Describe the gross anatomy of Pons. • Describe and draw the anatomical organization of structures present in transverse section at the different levelsthrough Pons. • Describe and draw the anatomical organization of structures present in transverse section at the level through the cranial part of Pons. • Describe the gross appearance, lobes and peduncles of cerebellum • Describe the afferent cerebellar fibers and efferent cerebellar fibers. • Describe the gross anatomy of Midbrain & draw the anatomical organization of structures present in sections at the different with clinical correlates. • Describe the boundaries o f3rd, lateral and 4th Ventricle. • Describe the subdivisions of Cerebrum. • Describe the subdivisions and gross features of Diencephalon. • Describe the general appearance of cerebral hemisphere and main sulci. • Describe the main sulci and gyri on superolateral surface, medial and inferior surfaces,. • Describe the Commissural fibers, Association fibers and Projection fibers, • Identify the various cortical areas and relate their functional significance. • Discuss clinical correlates. • Describe the salient features , nuclei and functions of Thalamus. • Describe the salient features ofHypohalamus, their connections and the functions of Hypothalamus wth theclinical correlates. • Describe the boundaries of Third Ventricle. • Describe the various components of the Basal ganglia, • Describe the general organization and functions of Reticular formation • Describe the salient features and functions of limbic system model		

		• Describe the formation and drainage of CSF • Describe the CSF barriers • Describe the various blood vessels (superficial and deep) supplying the brain, their course and branches • Identify all the structures on the cadaver and model		
	Thorax	• Describe the gross anatomy of thoracic cage, muscles and its joints • Describe the gross anatomy of mediastinum • Enumerate the subdivisions of mediastinum with their contents. • Describe the anatomy of lungs • Describe the gross features of heart with its blood supply	LGIS/ SGIS/SDL	MCQ SEQ OSPE
	Head & Neck	• Skull –I (norma frontalis, occipitalis) • Skull – II (norma lateralis) • Skull –III (norma basalis) • Cervical Vertebrae (typical & atypical). • Cervical fascia. • Deep dissection of neck (oesophagus, trachea & great vessels) • Anterior triangle of neck • Posterior triangle of neck • Thyroid gland & prevertebral region • Nerves of neck & cervical plexus • Revision & spotting • Assessment • Cranial nerves, 9, 10, 11 & 12 • Lymphatic drainage of head & neck and root of neck. • Scalp, Temple & Face. • Deep dissection of face. • Parotid region. • Mandible. • Hyoid bone. • Submandibular region. • Temporal Region • Infratemporal fossa • Pterygopalatine fossa • Temporomandibular joint. • Assessment • Eyelids, lacrimal apparatus & orbit • Muscles of orbit. • Nerves & vessels of orbit & Eye ball • External & middle ear. • Bony labyrinth and internal ear • Larynx-I • Larynx-II	LGIS/ SGIS/SDL	MCQ SEQ OSPE

		• External nose & nasal cavity. • Later wall of nose • Revision & spotting • Paranasal sinuses • Mouth, palate & tongue • Pharynx • vertebral canal, joints & surface anatomy • Assessment		

INTERNAL ASSESSMENT CALCULATION METHOD

1. Internal assessment Theory

Marks obtained (1st Term + 2nd Term + Send-up) = Z

Total Marks (1st Term+2nd Term+Send-up)

Internal Assessment Marks = 10% of Z $\frac{Z \times 10}{100}$

2. Internal Assessment Viva/Practical

a. **Viva + OSE Exam** = **8%**
(1st Term+ 2nd term+send-up+OSE)

b. Practical Book(2) = **2%**