

Syllabus for the Post of Assistant Professor / Associate Professor

Human Anatomy

1. General Anatomy :Cell			
Cell division types with significance	Applied anatomy	1	
Tissues			
Functional correlation	Applied anatomy	1	
Terms used in Embryology		1	
Functions of bone, Parts of growing long bone, Blood supply of long bone & Applied aspect	Types of ossification & Epiphysis	2	
Fibrous & Cartilaginous joints, Blood & nerve supply of joint	Kinesiology	2	
Classification of Skeletal muscle	Actions of Skeletal muscles	1	
Anastomosis, End artery & Applied aspect	Nerve supply of blood vessels	1	
Classification of neurons, Nuclei, Ganglia & Synapse	Autonomic nervous system: Parts & functions	2	
Functions of Skin & Dermatomes	Applied aspect of Skin & Appendages	2	
• 2. Genetics			
Protein biosynthesis, Genetic disorders & Karyotyping	Genetic code, Inheritance- Homoeopathic perspective	2	
3. Developmental Anatomy (Embryology).			
Structure of Spermatozoon & Ovarian follicle	Abnormalities in Gamete formation		

Decidua: Parts, Trophoblastic stages of differentiation, Fetal membranes: Amnion, Chorion & Connecting stalk	In vitro fertilization, Types of Implantation & Abnormal implantation
Intra-embryonic mesoderm & its subdivisions, Derivatives of Ectoderm, Endoderm & Mesoderm	Allantoic diverticulum & Urachus
Placental circulation & Placental barrier	Placenta previa, Amniocentesis
Tracheobronchial diverticulum & Lung bud	Intraembryonic coelom & cavities derived from it
	Development of Uterus, vagina & Fallopian tubes
Congenital anomalies of Heart	Development of main blood vessels
Neural crest & its derivatives	
<ul style="list-style-type: none"> Regional Anatomy: Head, Neck, Face & Brain	

Osteology

Fontanelles: Significance, age estimation & Sex differences of Skull & Muscle attachments	Ossification of Skull & Fractures of skull
Dental formula & Ossification	Sex & age estimation
Parts & muscle attachments	Applied anatomy
Atypical cervical vertebrae	Applied anatomy
Syndesmology	
Movements & muscles responsible	Factors influencing the stability
Myology	
Spaces & derivatives	
	Muscles of back of Neck
Applied anatomy	
Origin, insertion, nerve supply & action of Sternocleidomastoid	Muscles of the Larynx, Pharynx & Soft palate

Angiology	
Origin, parts, course, relations, branches/ tributaries of Facial, Lingual, Middle meningeal, Maxillary, Vertebral artery, Pterygoid plexus of veins, Emissary veins	Superior thyroid, & Occipital arteries, Retro mandibular vein, Lymphatic drainage of Head and Neck
Neurology	
Origin, nuclei, course, branches, distribution & applied anatomy of, Lingual, Chorda tympani, Recurrent laryngeal nerve, Phrenic nerve	Spinal accessory nerve, Cervical plexus & Parasympathetic Ganglia
Splanchnology	
Blood, nerve supply & lymphatic drainage	Clinical correlation
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Functions & Development
Blood, nerve supply & lymphatic drainage	Functions & Development
Structures present within, blood, nerve supply and lymphatic drainage	Parotid sheath & Development
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Functions
Blood, nerve supply & lymphatic drainage	Functions, Development
Blood, nerve supply & lymphatic drainage	Development
Blood, nerve supply & lymphatic drainage	Development

Blood, nerve supply & lymphatic drainage	Important features of subdivisions
Blood, nerve supply & lymphatic drainage	Rima glottis, Phonation
Blood, nerve supply & lymphatic drainage	Applied anatomy
Ventricles of the brain and circulation of Cerebro spinal fluid	Base of the brain & Applied anatomy
Arterial supply & venous drainage	Applied anatomy
Blood supply	Applied anatomy
Blood supply	Applied anatomy
Blood supply	Applied anatomy
Structure of cerebellar cortex & Cerebellar peduncles	Blood supply & Applied anatomy
Floor of the fourth ventricle	Choroid plexus
Parts & nuclei	Functions
Connections	Functions
Recesses	Choroid plexus
Functional areas of cerebral cortex	Limbic system
Corpus callosum & Internal capsule	Fornix
Choroid plexus & Choroid fissure	

Thorax-

Osteology			
General features of Atypical ribs & Atypical thoracic vertebrae	Applied anatomy, Ossification & muscle attachments	3	
Syndesmology			
Clinical importance		1	
Myology			
Origin, insertion, nerve supply & action of Diaphragm	Applied anatomy	1	
Angiology			

Origin, parts, course, branches of Internal thoracic artery & Thoracic duct	Applied anatomy & Lymphatic drainage of thorax	3
Neurology		
Applied anatomy of Phrenic nerve	Thoracic part of sympathetic nervous system	1
Splanchnology		
Blood, nerve supply & lymphatic drainage	Applied anatomy	1
Blood, nerve supply & lymphatic drainage	Applied anatomy	2
Blood & nerve supply	Applied anatomy	1
Applied anatomy		1
Valves of the heart & Applied anatomy	Conducting system	3
Blood & nerve supply	Applied anatomy	1
Constriction & Nerve supply	Applied anatomy	1

Abdomen & Pelvis

Osteology		
Applied anatomy, Pelvis- Sex differences	Ossification, Types of Pelvis & pelvimetry	
Syndesmology		
Applied anatomy	Sacroiliac joint	
Myology		
Rectus sheath & Inguinal canal	Applied anatomy	

Superficial, deep perineal pouches & Pelvic Diaphragm	Muscles & nerves
Angiology	
Origin, parts, course, relations, branches of Coeliac trunk, Superior, Inferior mesenteric & Internal iliac arteries	Applied anatomy, Lymphatic drainage of Abdomen & pelvis
Neurology	
	Autonomic nerve plexuses
Splanchnology	
Omental bursa, Mesentery, Peritoneal pouches in pelvis	Functions & applied anatomy
Blood, nerve supply & lymphatic drainage	Applied anatomy, Development
Blood, nerve supply & lymphatic drainage	Applied anatomy
Differences between Jejunum & Ileum	Applied anatomy
Blood, nerve supply & lymphatic drainage	Marginal artery
Blood, nerve supply & lymphatic drainage	Applied anatomy
Blood, nerve supply & lymphatic drainage	Cystic duct
Blood, nerve supply & lymphatic drainage	Duct system, Development
Nerve supply, Lymphatic drainage & Applied anatomy	Horse shoe kidney, Polycystic kidney
Course & constrictions	Blood supply

Relations & Applied anatomy	Blood, nerve supply & lymphatic drainage
Relations & Applied anatomy	Micturition reflex
Relations & Applied anatomy	
Relations & Applied anatomy	Blood, nerve supply & lymphatic drainage
Relations	Applied anatomy
Applied anatomy	
Relations, ligaments & Supports of uterus	

Upper Extremity-

Osteology		
Articulated hand & Applied anatomy	Ossification & muscle attachments	
Syndesmology		
Applied anatomy	First Carpo-metacarpal joint, MP & IP joints	
Myology		
Origin, insertion, nerve supply & action of Brachioradialis, Intrinsic muscles of the hand, Formation & applied anatomy of Rotator cuff	Thenar & Hypothenar muscles	
Applied anatomy		
Other flexors & extensor muscles		

Angiology	
Origin, parts, course, relations, branches/ tributaries & applied anatomy of Profunda brachii artery, Superficial, deep palmar arch & Basilic vein	Anastomosis around the elbow, shoulder & Lymphatic drainage of upper limb
Neurology	
Relations & applied anatomy	Variations
Origin, root value, course, branches, distribution, applied anatomy of Axillary & musculocutaneous nerve	
Applied anatomy	

Lower Extremity

Osteology
Articulated foot & Applied anatomy
Syndesmology
Applied anatomy
Applied anatomy
Myology
Origin, insertion, nerve supply & action of Gluteus medius, minimus & Tensor fascia latae
Applied anatomy
Applied anatomy Extensor, perineal & flexor retinacula
Angiology

Origin, parts, course, relations, branches/ tributaries & applied anatomy of Profunda femoris, Anterior Tibial, Obturator artery & Plantar arch

Neurology

Relations & applied anatomy

Origin, root value, course, branches, distribution & applied anatomy of Obturator & Tibial nerve

Special Senses

Mastoid antrum, Eustachian tube & Applied anatomy

Optic pathway & Applied anatomy