

**M.Phil Anatomy (Part-I)**  
**PAPER I**  
**TABLE OF SPECIFICATIONS**  
**GROSS ANATOMY**

The grey areas of the courses which cannot be covered or are difficult to cover in MCQ's shall be used for framing SEQ's. Attempt shall be made to avoid duplication between MCQ's and SEQ's. Last but not the least is to evaluate the information learned by the students.

Topics	MCQ's	SEQ's
<b>General Anatomy</b> <ul style="list-style-type: none"> <li>➤ Descriptive Anatomic Terms</li> <li>➤ Terms Related to Positions 2 Terms Related to Movement</li> <li>➤ Basic Structures</li> <li>➤ Skin</li> <li>➤ Fasciae</li> <li>➤ Muscle</li> <li>➤ Joints</li> <li>➤ Ligaments</li> <li>➤ Busae</li> <li>➤ Synovial Sheath</li> <li>➤ Blood Vessels</li> <li>➤ Lymphatic System</li> <li>➤ Nervous System</li> <li>➤ Mucous Membranes Serous Membranes</li> <li>➤ Bone</li> <li>➤ Cartilage</li> <li>➤ Effects of Sex, Race and Age of Structure</li> <li>➤ Radiographic Anatomy</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	3	1
<b>Thorax</b> <ul style="list-style-type: none"> <li>➤ Muscles</li> <li>➤ Arteries</li> <li>➤ Veins</li> <li>➤ Nerves</li> <li>➤ Viscera <ul style="list-style-type: none"> <li>○ Heart</li> <li>○ Oesophagus</li> <li>○ Trachea</li> <li>○ Lungs</li> </ul> </li> <li>➤ Pleura</li> <li>➤ Lymphatic Drainage</li> <li>➤ Superior Mediastinum</li> <li>➤ Inferior Mediastinum</li> <li>➤ Joints</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	7	1

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<b>Abdomen</b> <ul style="list-style-type: none"> <li>➤ Muscles</li> <li>➤ Arteries</li> <li>➤ Veins</li> <li>➤ Nerves</li> <li>➤ Peritoneum, Greater &amp; Lesser Sacs</li> <li>➤ Folds, Ligaments</li> <li>➤ Stomach</li> <li>➤ Small Intestine</li> <li>➤ Large Intestine</li> <li>➤ Liver &amp; Gall Bladder</li> <li>➤ Spleen &amp; Pancreas</li> <li>➤ Kidney</li> <li>➤ Testes</li> <li>➤ Folds</li> <li>➤ Ligament &amp; greater &amp; lesser sections</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	12	1
<b>Pelvis</b> <ul style="list-style-type: none"> <li>➤ Muscles</li> <li>➤ Arteries</li> <li>➤ Veins</li> <li>➤ Nerves</li> <li>➤ Peritoneum</li> <li>➤ Urinary Bladder</li> <li>➤ Anal Canal</li> <li>➤ Male : prostate, Seminal Vesicles</li> <li>➤ Female : Uterus, Uterine, tubes,</li> <li>➤ Vagina, Ovary</li> <li>➤ Lymphatic Drainage</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	4	1
<b>Perineum</b> <ul style="list-style-type: none"> <li>➤ Muscles</li> <li>➤ Arteries</li> <li>➤ Veins</li> <li>➤ Nerves</li> <li>➤ Superficial &amp; Deep Pouches</li> <li>➤ Lymphatic Drainage</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	2	

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<b>Upper Limb</b> <ul style="list-style-type: none"> <li>➤ Muscles</li> <li>➤ Arteries</li> <li>➤ Veins</li> <li>➤ Nerves</li> <li>➤ Joints</li> <li>➤ Lymphatic Drainage</li> <li>➤ Bones</li> <li>➤ Miscellaneous</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	4	1
<b>Lower Limb</b> <ul style="list-style-type: none"> <li>➤ Muscles</li> <li>➤ Arteries</li> <li>➤ Veins</li> <li>➤ Nerves</li> <li>➤ Joints</li> <li>➤ Lymphatic Drainage</li> <li>➤ Bones</li> <li>➤ Miscellaneous</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	4	
<b>Head and Neck</b> <ul style="list-style-type: none"> <li>➤ Muscles</li> <li>➤ Arteries</li> <li>➤ Veins</li> <li>➤ Nerves</li> <li>➤ Scalp &amp; Face</li> <li>➤ Temporal &amp; Infra-temporal facial</li> <li>➤ Fascia</li> <li>➤ Lymphatic Drainage</li> <li>➤ Cranial Cavity</li> <li>➤ Oral Cavity &amp; Tongue</li> <li>➤ Esophagus</li> <li>➤ Larynx</li> <li>➤ Pharynx</li> <li>➤ Thyroid and Parathyroid</li> <li>➤ Orbital Cavity</li> <li>➤ Joints</li> <li>➤ Bones</li> <li>➤ Nose</li> <li>➤ Eye Ball</li> <li>➤ Ear</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	13	1

## NEUROANATOMY

Topics	MCQ's	SEQ's
<b>General</b>		
<ul style="list-style-type: none"> <li>➤ Introduction and Organization of the Nervous System</li> <li>➤ The Neurobiology of the Neuron and the Neuroglia</li> <li>➤ Nerve Fibers, Peripheral Nerves, Receptor and Effector Endings, Dermatomes, and Muscle Activity</li> <li>➤ Applied Aspects</li> </ul>	2	
<b>Spinal Cord</b>		
<ul style="list-style-type: none"> <li>➤ Spinal Cord gross anatomy</li> <li>➤ Ascending and Decending Tracts</li> <li>➤ Meninges and Blood Supply</li> <li>➤ Applied Aspects</li> </ul>	5	
<b>The Brainstem</b>		
<ul style="list-style-type: none"> <li>➤ Medulla Oblongata: gross Anatomy</li> <li>➤ Medulla Oblongata: Internal Structure</li> <li>➤ Pons: Gross Anatomy</li> <li>➤ Midbrain : Gross Anatomy</li> <li>➤ Midbrain : Internal Structure</li> <li>➤ Applied Aspects</li> </ul>	6	1
<b>Cerebellum</b>		
<ul style="list-style-type: none"> <li>➤ Cerebellum: Gross Anatomy and</li> <li>➤ Cerebellum: Its Connections</li> <li>➤ Cerebellum: Its Functions</li> <li>➤ Applied Aspects</li> </ul>	3	
<b>The Cerebrum</b>		
<ul style="list-style-type: none"> <li>➤ Lobes and surfaces</li> <li>➤ Structural and Functional Localization of Cortical Areas</li> <li>➤ Reticular Formation</li> <li>➤ Limbic System</li> <li>➤ Basal Nuclei (Basal Ganglia): gross anatomy</li> <li>➤ Basal Nuclei: their connections and functions</li> <li>➤ Visual Pathways</li> <li>➤ Auditory Pathways</li> <li>➤ Upper motor Neurons and Lesions</li> <li>➤ Lower Motor Neurons and Lesions</li> </ul>	9	

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<ul style="list-style-type: none"> <li>➤ Thalamus and its Connections</li> <li>➤ Hypothalamus and its Connections</li> <li>➤ Cranial Nerves Nuclei: their location</li> <li>➤ Cranial Nerves Nuclei: their connections &amp; testing</li> <li>➤ Cranial Nerves i: their distribution</li> <li>➤ Autonomic Nervous System</li> <li>➤ Meninges of the Brain</li> <li>➤ Ventricular System</li> <li>➤ Cerebrospinal Fluid</li> <li>➤ Blood-Brain and Blood-Cerebrospinal Fluid Barriers</li> <li>➤ The Blood Supply of the Brain</li> <li>➤ Applied &amp; Clinical Aspects</li> </ul>	6	
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MCQ's = 80

Total Marks = 80

Time = 90 Minutes

SEQ's = 7

Total Marks = 70

Time = 90 Minutes

**Total Marks of the Paper = 150****Total Time = 3 Hours**

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**M.Phil Anatomy (Part-I)**  
**PAPER II**  
**TABLE OF SPECIFICATIONS**  
**MICROANATOMY**

The grey areas of the courses which cannot be covered or are difficult to cover in MCQ's shall be used for framing SEQ's. Attempt shall be made to avoid duplication between MCQ's and SEQ's. Last but not the least is to evaluate the information learned by the students.

Topics	MCQ's	SEQ's
<b>The Cell</b>		
<ul style="list-style-type: none"> <li>➤ Cell Structure and Function</li> <li>➤ Cell Cycle and Replication</li> <li>➤ Applied Aspects</li> </ul>	4	
<b>Basic Tissue Types</b>		
<ul style="list-style-type: none"> <li>➤ Blood</li> <li>➤ Supporting / Connective Tissues</li> <li>➤ Epithelial Tissues</li> <li>➤ Muscles</li> <li>➤ Nervous Tissues</li> <li>➤ Applied Aspects</li> </ul>	8	1
<b>Organ Systems</b>		
<ul style="list-style-type: none"> <li>➤ Circulatory System</li> <li>➤ Skin</li> <li>➤ Skeletal Tissues</li> <li>➤ Immune System</li> <li>➤ Respiratory System</li> <li>➤ Applied Aspects</li> </ul>	11	1
<ul style="list-style-type: none"> <li>➤ Oral Tissues</li> <li>➤ Gastrointestinal Tract</li> <li>➤ Liver and Pancreas</li> <li>➤ Urinary System</li> <li>➤ The endocrine glands</li> <li>➤ Applied Aspects</li> </ul>	11	1
<ul style="list-style-type: none"> <li>➤ Male Reproductive System</li> <li>➤ Femal Reproductive System</li> <li>➤ Central Nervous System</li> <li>➤ Special Sense Organs</li> <li>➤ Applied Aspects</li> </ul>	9	1

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**DEVELOPMENTAL ANATOMY**

Topics	MCQ's	SEQ's
<b>General Embryology</b>		
<ul style="list-style-type: none"> <li>➤ Gametogenesis: in male</li> <li>➤ Gametogenesis: in female</li> <li>➤ Ovulation to implantation</li> <li>➤ Bilaminar Germ Disc</li> <li>➤ Trilaminar Germ Disc</li> <li>➤ The Embryonic Period</li> <li>➤ Fetus and Placenta</li> <li>➤ Birth Defects and Prenatal Diagnosis</li> </ul>	9	1
<b>Special Embryology</b>		
<ul style="list-style-type: none"> <li>➤ Skeletal System</li> <li>➤ Muscular System</li> <li>➤ Body Cavities</li> <li>➤ Cardiovascular System</li> <li>➤ Respiratory System</li> <li>➤ Digestive System</li> <li>➤ Urogenital System</li> <li>➤ Congenital Abnormalities</li> </ul>	15	1
<ul style="list-style-type: none"> <li>➤ Head and Neck</li> <li>➤ Ear</li> <li>➤ Eye</li> <li>➤ Integumentary System</li> <li>➤ Central Nervous System</li> <li>➤ Spinal Cord</li> <li>➤ Telencephalon</li> <li>➤ Diencephalon</li> <li>➤ Mesencephalon</li> <li>➤ Metencephalon</li> <li>➤ Myelencephalon</li> <li>➤ Congenital Abnormalities</li> </ul>	13	1

MCQ's = 80

Total Marks = 80

Time = 90 Minutes

SEQ's = 7

Total Marks = 70

Time = 90 Minutes

**Total Marks of the Paper = 150**

**Total Time = 3 Hours**

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