

Pacific Medical University
Ph. D. Syllabus Entrance Exam
Anatomy

Human Anatomy including Neuro Anatomy.

Development Anatomy, Recent Advances and History of Anatomy.

Comparative Anatomy and Evolution..

1. Introduction: Animal cell, General Consideration of bone and cartilage, articulations and muscles.

2. Embryology: General embryology- Spermatogenesis and genesis, heredity and Human Genetics, Fertilisation and

Segmentation of Ovum. Foetal membranes and placenta. Development of individual system.

3. Osteology: General idea of all the bones of human skeleton.

4. Extrimities: A gross study of muscles: blood vessels, nerves and joints.

5. Thorax: Intercostal spaces, Pleura. JPericardium and contents, Mediastinum and contents, Diaphragm, Mechanism of respiration, Applied considerations.

6. Abdomen: Anterolateral abdominal wall with its applied importance. Abdominal cavity- its contents organs, vessels,

nerves and lymphatics. Autonomic nervous system, Perineum-Male and female pelvis, its contents and its applied

considerations.

7. Head and Neck: Study of the skull as a whole, orbital cavity and contents, salivary glands, blood vessels, cranial

nerves, Gross study of Pharynx, Larynx, nasal cavity and ear.

8. Central nervous system: Spinal cord-Tracts, coverings and blood supply, Medulla oblongata, Pons, Cerebellum,

Midbrain and its internal structure, functional significance and connections. Third, Fourth and lateral ventricles.

Forebrain-Internal structure functional significance and connections. Choroid plexus, Covering and blood supply of

brain. Chief nerve tracts-Pyramidal and extra Pyramidal systems.

9. Autonomic nervous system: Parasympathetic and sympathetic system.

10. Ductless Glands: Gross anatomy of all the ductless glands.

11. Dissection: Dissection and study of the dissected parts to supplement the theoretical knowledge.

12. Histology: Study of the histological structure of the various tissues of the body.