

SYLLABUS
FOR Ph.D CAT

A. Theoretical Knowledge

The theory examination shall consist of four papers as given below and shall cover in each case, the following major aspects related to relevant title of paper.

1. Paper-I: Gross and Clinical Anatomy

- i) A comprehensive knowledge of the topography and systemic Anatomy of the Human body and its application in medical, surgical and other clinical discipline.
- ii) Cross-sectional Anatomy
- iii) Imaging techniques

2. Paper-II: Developmental Anatomy and Genetics

- i) A detailed knowledge of the general embryology & early human development.
- ii) Congenital malformations and Teratology.
- iii) Principles of human genetics.
- iv) Karyotyping & Chromosomal abnormalities.

3. Paper-III: Microanatomy and Recent advances

- i) Detailed knowledge of light microscopic and electron microscopic features of cells, tissues and organs.
- ii) Recent advances in histological and histochemical techniques.
- iii) Fluorescent microscopy, Immunocytochemistry and in situ Hybridization techniques.

4. Paper-IV: Neuro-Anatomy

- i) Cytology of the nervous system.
- ii) Regional organization of the central nervous system.
- iii) Peripheral nervous system including the autonomic nervous system and
- iv) Special sense organs