**Syllabus for entrance test: Anatomy**

1.3 General Anatomy- Introduction: Skin with appendages – functions and applied: Fascia- Superficial and deep, functions and applied: General classification of bones & cartilage including examples, functions and applied; General classification of joints with general features, examples, movements and applied; General classification of muscles – features, function, examples and and applied including myophysiology; General anatomy of cardiovascular system-arteries, veins, capillaries, endarteries, functions and applied; Lymphatic system – functions and applied: Nervous system-including relevant neurophysiology and General principles of radiology.

Arthrology: Definition and Classification of joints – Region wise-All joints of the body-large and small. Bones taking part I, Articular cartilage ii. Capsule and its thickenings iii. Ligaments iv. Synovial membrance (if applicable) v. Intra capsular structures (if any) vi. Structure, nutrition of articular cartilage and its significance vii. Innervation viii. Blood supply ix. Movements with muscles responsible for such movements x. Applied anatomy.

2. Knowledge of all the developmental sequences from concenption to birth and further morphological changes throughout life; Critical periods and times of attainment of functions of growing/developing organs/system; Conrrelate congenital anomaly with development; Anatomical basis of contraception and road to health progress in growth and development in view of national programs of MCH and Genetic-Chromosomes and chromosomes abnormalities, Single gene disorders, Polygenic Disorders, Mutation and human disease, Genes in Populations and genetic counseling, Genetic techniques e.g. Karyotyping and other recent advances.

3.3 Clinical genetics for population- i. Hardy-Weinberg rule, factors altering this equilibrium for e.g. mutation, selection and balance between selection and mutation, genetic heterogeneity, genetic drift.

ii. Dermatoglyphics iii Pedigree charting iv.

**NEUROANATOMY**

1. Knowledge of nervous system along with skill for electing functions of various parts and solve neurological problems. Introduction: evolution – centralization – encephalization-development-tube derivatives – crest derivatives – subdivisions. Cells of the nervous System:- neurouns – nerve fibres – neuroglia – functions – synapse.
2. Applied anatomy of all regions with special reference to neurophysiology and neuropharmacology. Recent advances.

**ANAT.705**

1. Forensic Anatomy-Anatomy applicable to forensic medicine with respect to age determination sexing of bones and other forensic aspects.
2. Forensic pathology – Determination of the Cause of Death, Determination of the Manner of Death, Type of case referred to Medical Examinaer/Coroner, Review of Gross Anatomy, Properly fill out a death certificate, Understand what cases must be referred to the Medical Examiner.