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SYLLABUS

Candidates for the Fellowship of the College are expected to have a sound working knowledge of the structure and functions of the human body and the various mechanisms whereby these structures and functions are altered leading to diseased states. The emphasis in the FCPS Part-I examinations is on comprehension of the various mechanisms by which the body works and adjusts to external and internal changes. Concepts of the integration and interrelationship of various parts of the body are to be given more importance than finer details of structure and function.

The outline of various topics given in this syllabus is a guide to what at the moment are considered to be important topics which the candidate is expected to know. This is to help both the candidate and the examiner in defining the minimum boundaries of FCPS Part-I examination.

PAPER I

I. ANATOMY

1. General Features:
 - Muscles
 - Joints
 - Blood vessels
2. General Embryology - General aspects
3. Histology - General Features:
 - Epithelia
 - Muscles
 - Nerves
 - Blood vessels
 - Connective tissue
 - Lymphoid tissue



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4. Brain and spinal cord - General Features:
 - Spinal nerves
 - Cranial nerves
 - Vertebral Column
5. Head and Neck - General Features:
 - Major blood vessels
6. Viscera: General Features: Blood and Nerve Supply:
 - Heart
 - Lung
 - Kidney
 - Liver
7. Endocrine glands – Gross structure and important relations of Pituitary, Thyroid, parathyroid and adrenal glands

II. PHYSIOLOGY, BIOCHEMISTRY AND PHARMACOLOGY

1. General Physiology:
 - Components of cell with their major functions.
Transport across cell membrane
 - Action Potential, Muscle contraction
 - Classification and properties of nerve fibres
 - Receptors: types and functions
 - Somatic sensations, transmission of pain
 - Function of motor and sensory areas
 - Cerebrospinal fluid (CSF) - formation, functions, drainage
 - Autonomic nervous system: parts and their functions
 - General properties and composition of blood including Normal Cell counts and functions of RBCs, WBCs and platelets



- Mechanism of homeostatic coagulation factors and their actions
- Blood groups
- Conducting tissues of heart: generation and propagation of cardiac impulse
- Cardiac cycle (pressure, volumes, valvular changes).
- Blood pressure and its regulations
- Respiration: Ventilation, transport of gases and regulation of respiration
- Body fluids: compartments and regulation of osmotic equilibrium
- Regulation of E.C.F, blood volume and flow
- Peripheral circulation.
- General functions of kidney.
- Regulation of body temperature.

2. Biochemistry:

- Requisites of a balanced diet
- General principles of electrolyte balance
- Role and function of endocrine hormones - feedback mechanism.
- Metabolism of carbohydrates, proteins, fats and vitamins

3. Pharmacology:

- Clinical Pharmacokinetics
- Adverse reactions of common drugs
- General principles of rational drug therapy



III. PATHOLOGY INCLUDING MICROBIOLOGY

1. Effects of injury on cell by physical, chemical and biological agents
2. Inflammation
 - Acute
 - Chronic including granulomatous
3. Regeneration and Repair
4. Metabolic Response to Trauma
5. Disturbance of homeostatic mechanism
 - Haemorrhage and Shock - mechanism and types
 - Oedema
 - Disturbance of fluids and electrolytes
6. Thrombosis and embolism, Infarction and gangrene
7. Disorders of growth - Atrophy, hypertrophy, hyperplasia
8. Carcinogens and pre-malignant lesions
9. Neoplasia: Types and spread of tumor
10. General characteristics of bacteria, viruses, parasites and fungi
11. Immune system: General principle
12. Medical genetics - basic concept
13. Interpretation of routine Biochemical tests e.g. liver function tests, glucose, urea, creatinine, thyroid profile
14. Nutritional diseases, disorders due to deficiency of vitamins and minerals



IV. RESEARCH AND BIostatISTICS BASIC CONCEPTS

Epidemiology:

- An introduction to Epidemiology and its role in understanding distribution and determinants of disease.
- Measures of disease occurrence
- Study designs, their advantages / disadvantages
- Measures of association
- Chances, Bias and Confounding
- Screening

Biostatistics:

- Introduction to Biostatistics
- Data and its kinds
- Summarization of data
- Measures of Central Tendency and Dispersion
- Normal Distribution
- Point and Interval estimation and Probability
- Hypothesis testing, significance level and power
- Sampling and its Techniques

V. BEHAVIOURAL SCIENCE AND MEDICAL ETHICS - GENERAL PRINCIPLES

- Medical Ethics
 - Communication skills including Doctor Patient relationship and counseling
 - Psycho social aspect of general health care
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PAPER II
(OTORHINOLARYNGOLOGY (FCPS-I))

I. ANATOMY

Structure and embryological development with anomalies of:

Ear:

- External Ear; External Auditory canal; Middle Ear; Inner Ear; Eustachian Tube; Facial nerve

Nose:

- External Nose; Nasal fossa; Sinuses, Nasopharynx; Orbit; Facial skeleton and base of the skull

Throat:

- Oral Cavity; Oropharynx; Tongue, Hypopharynx; (Muscles & Fascia); Trachea; Bronchi; Oesophagus; Larynx

Head & Neck:

- Lymphoid tissue - Tonsils, adenoids, neck nodes
- Cervical Spine
- Triangles of the neck
- Cervical Fascia
- Autonomic nervous system - related to head & neck
- Blood vessels & lymphatics of head & neck region
- Brain Stem, Cranium
- Thyroid

II. PHYSIOLOGY AND BIOCHEMISTRY

- Function of the nose; Olfaction, Respiratory, Protective
- Taste sensation
- Hearing - mechanism
- Swallowing - mechanism



- Salivary glands - functions
- Digestive system - motility and secretions of GIT
- Functions of larynx - speech mechanism
- Pathways for transmission of pain
- Vestibular sensations and maintenance of equilibrium - functions of utricle and saccule
- Role of cerebellum and basal ganglia in motor control
- Pulmonary ventilation

III. PATHOLOGY, MICROBIOLOGY AND IMMUNOLOGY

- Common inflammatory conditions in head & neck region
- Neoplasia - Etiological factors
- Common Fungal infections in E.N.T
- Allergy and hypersensitivity - Autoimmunity
- Genetic diseases - Transmission pattern
- Bleeding disorders
- Pathology of Thyroid and para thyroid glands
- Disorders of RBCs and white cells
 - Anaemias
 - Causes of leukopenia and leukocytosis
- Factors responsible for common environmental diseases

IV. PHARMACOLOGY

- Antibiotics; Antihistamines; Decongestants; Local anaesthetics; Anti-inflammatory drugs; Analgesics;
- Steroids; Anti-fungal Drugs



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