



www.FCPSWORLD.com

Original Ophthalmology Syllabus Given by CPSP

- ✓ Clear FCPS-1 in FIRST ATTEMPT
- ✓ Entire course will be completed in 2 months.
- ✓ Live lectures via video Portal
- ✓ Daily Test session (Test discussion will be on Via Portal)
- ✓ Follow our complete guideline for FCPS-1
- ✓ Get Hands on 20,000 CPSP question (most of them repeat)
- ✓ Free study material, whatsapp group (only for our students)
- ✓ Don't Miss the chance. (**LIMITED SEATS AVAILABLE.**)
- ✓ WWW.FCPSWORLD.com
- ✓ WWW.facebook.com/fcpsworld
- ✓ For Details Phone# 03129684658

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. Features and Functional Anatomy:
 - Bone
 - Muscle
 - Joints
 - Major blood vessels
2. Embryology - General aspects.
3. Histology - General Structure:
 - Types of tissue
 - Epithelia
 - Muscles
 - Nerves
 - Blood vessels
 - Fibro fatty tissue
 - Lymph glands



4. Brain and spinal cord:
 - Gross structure
 - Spinal nerves - origin and distribution
 - Cranial nerves
 - Vertebral Column - Features
5. Head and Neck - Structures.
6. Viscera: Gross structure, Blood and Nerve Supply:
 - Heart and Pericardium
 - Lung, Pleura and Mediastinum
 - Kidney
 - Liver
7. Anatomical outline, Blood Supply and innervation of Respiratory tract.
8. Endocrine glands - anatomical structure Pituitary Thyroid, parathyroid and adrenal glands.

II. PHYSIOLOGY & BIOCHEMISTRY:

1. General Physiology:
 - Components of cell and cytoplasm with their functions (in general) and transport across cell membrane.
 - Nerve action potential, Muscles contraction Classification and properties of nerve fibres
 - Receptors, types, properties and functions
 - Somatic sensation - Transmission of pain
 - Function of motor and sensory areas, Pain pathway Cerebrospinal fluid (CSF) - formation, functions, drainage
 - Autonomic nervous system (outflow and responses of effected organs)
 - General properties and composition of blood
 - Normal counts and functions of RBCs, WBCs, platelets
 - Mechanism of homeostatic coagulation factors and their actions
 - Blood groups (types, antigens, antibodies, phenotype, genotypes and significance)



www.FCPSWORLD.com
 Online Lecture Series for FCPS, MD/MS
 Facebook page: FCPS WORLD



www.FCPSWORLD.com
Online Lecture Series for FCPS, MD/MS
Facebook page: FCPS WORLD

- Conducting tissues of heart (generation and propagation of cardiac impulse). Control of cardiac out put
 - Cardiac cycle (pressure, volumes, valvular changes).
 - Blood pressure and its regulations (general).
 - Respiratory and non-respiratory function of respiratory tract. Regulation of Respiration, Transport of gasses.
 - Body fluids, compartments and regulations of osmotic equilibrium especially pleural and peritoneal.
 - Regulation of E.C.F. and blood volume and flow - Peripheral circulation.
 - General functions of kidney.
 - Regulation of body temperature.
2. Pharmacology:
- General principles of rational drug therapy, Clinical pharmacokinetics.
 - Adverse reactions of common drugs.
3. Biochemistry:
- Requisites of a balanced diet
 - General principles of electrolyte balance
 - Role and function of endocrine hormones - feed back mechanism.
 - Metabolism of carbohydrate, proteins, fats and vitamins - Metabolic pathway.

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 - Adaptation, Atrophy, hypertrophy, hyperplasia
8. Carcinogens and pre-malignant lesions
9. Neoplasia: General classification and spread of tumor
10. General aspects of tumor markers
11. General characteristics of bacteria, viruses, Chlamydia, rickettsia, parasites and fungi
12. Immunology and immune system: General principle
13. Medical genetics - basic concept
14. Interpretation of routine Biochemical tests e.g. liver function test, glucose, urea, creatinine
15. Nutritional disease: 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
- Screening



www.FCPSWORLD.com
Online Lecture Series for FCPS, MD/MS
Facebook page: FCPS WORLD

Biostatistics:

- Introduction to Biostatistics
- Data and its kinds
- Summarization of data
- Normal Distribution
- Point and Interval estimation and Probability
- Hypothesis testing, significance level and power

**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

**PAPER II
(OPHTHALMOLOGY (FCPS-I))****I. ANATOMY****Embryology:**

- Brain
- Eye

Histology:

- Eye

Anterior Segment:

- Conjunctiva
- Cornea
- Sclera
- Iris and pupil
- Limbus and angle of AC
- Lens and Zonule

Posterior Segment:

- Ciliary body
- Choroid
- Vitreous
- Retina
- Optic nerve

Cranium:

- Foramina
- Nerves

Brain - Visual Cortex:

- Visual Cortex

Visual Pathway

II. PATHOLOGY

1. Neoplasia:
 - Etiology
 - Tumor Immunity
 - Laboratory diagnosis of cancer
2. Genetics:
 - Transmission patterns
 - Cytogenetic disorders
 - Diagnosis of Genetic diseases
3. Environmental factors leading to Eye disease:
 - Pathogenesis of Hypertension
 - Effect on Eye
4. Vasculitides related to eye giant cell (temporal) arthritis.



5. Hypersensitivity reactions.
6. Auto-immune diseases.
7. Immuno-deficiency disease.
8. Bleeding and coagulation disorders.
9. Jaundice.
10. Precautions in cases of Hepatitis B and C.

III. PHYSIOLOGY

1. Nervous System:
 - Cerebral cortex - Functions of Specific cortical areas
 - Motor cortex and cort cospinal tract
 - Organization and function of visual cortex
 - Role of brain stem in controlling motor function
 - Function of cerebellum and basal ganglia
 - Limbic system and hypothalamus
 - Role of Hypothalamus in regulation of body temperature
2. The Eye:
 - Principle of optics
 - Fluid system of Eye
 - Movement of Eye ball: Blinking - Types and control
 - Receptor and Neural function of retina
 - Photochemistry of vision
 - Colour vision

3. Central Neurophysiology of Vision:
 - Visual acuity
 - Fields of vision
 - Near Vision
4. Autonomic control of Accommodation and pupillary aperture - light and dark adaptation:
 - Cerebral blood flow
 - Cerebrospinal fluid - Formation
 - Pulmonary Ventilation
 - Pulmonary circulation
 - Pulmonary capillary dynamics
 - Ventilation perfusion ratio
 - Transport of O₂ and CO₂ in blood - Hypoxia
 - Regulation of respiration
5. Endocrine:
 - Regulation of Thyroid Metabolism - Hyperthyroidism
 - Pituitary hormones
 - Effect of Insulin and Glucagons - Diabetes Mellitus
 - Role of Parathyroid hormone on calcium and Phosphate Homeostasis
6. CVS:
 - Regulation of heart functioning
 - Control of Blood pressure - Mechanism
 - Role of kidney in long term regulation of arterial pressure
 - Lens Metabolism - Transparency
 - Corneal Metabolism - Transparency
 - Binocular Vision
7. Control of G.I.T. Secretions



FCPSWORLD.COM



Online Coaching

☒ Live Lecture
☒ Test Sessions
☒ Mobile Application

Online Coaching
Fcps-1 | Md/Ms

www.fcpsworld.com

Fcps | MD/MS Online Lecture Classes

01 Qualified Staff
Our doctors are highly qualified and Currently doing residencies

02 Conceptual Study
We focus on clearing concept of our students so that they may tackle all kind

03 Past Papers
Our past paper pool contains over 30,000 MCQs from 2006-2019

04 Mobile Application
No Laptop no problem. We have developed website for our website.

Join Now!!!

Crash Course

- 1) Complete Syllabus in 60 Days
- 2) Daily Assignments
- 3) Daily Topic Wise Tests (Next Day)
- 4) Grand Tests at end of Syllabus
- 5) 24/7 Mobile Support from Teachers
- 6) Past Papers
- 7) Animated Videos

Phone: +92 3129684658

Email: hello@fcpsworld.com

www.fcpsworld.com





www.fcpsworld.com



FCPS WORLD

www.fcpsworld.com

Is it MONEY or FCPS that you want?

Join Us and Increase your chance to Clear Part-1 in 1st Attempt