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**Original Diagnostic radiology Syllabus by CPSP**

- ✓ Clear FCPS-1 in **FIRST ATTEMPT**
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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







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- 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 - feed back mechanism.
   - Metabolism of carbohydrates, proteins, fats and vitamins

3. Pharmacology:
   - Clinical Pharmacokinetics
   - Adverse reactions of common drugs
   - General principles of rational drug therapy



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## III. PATHOLOGY INCLUDING MICROBIOLOGY

1. Effects of injury on cell by physical, chemical and biological agents

2. Inflammation
   - Acute
   - Chronic including granulamatous

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

14. Nutritional diseases, disorders due to deficiency of vitamins and minerals







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## IV. RESEARCH AND BIOSTATISTICS BASIC CONCEPTS

**Epidemiology:**

- An introduction to Epidemiology and its role in understanding distribution and determinants of disease.
- Measures of disease occurence
- 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

### (DIAGNOSTIC RADIOLOGY (FCPS-I)

## I. ANATOMY

**Embryology:**

- Organ development and its anomalies

**Nervous System:**

- Ventricular system of brain
- Arterial supply of brain
- Venous drainage of brain

**Head and Neck:**

- Cranium - Walls of the cranial cavity
- Orbital region
- Nasal cavity and Para nasal sinuses
- Middle Ear
- Salivary Glands

**Thorax:**

- Thoracic wall - Skeleton and Muscles
- Pleural reflection
- Mediastinum - Structure and cross section.
- Broncho pleural segments
- Diaphragm - Nerve supply, structures passing through hiatus

**Cardio Vascular:**

- Heart - Blood supply
- Septal defects
- Great vessels - Branches

**Breast:**

- Structure
- Blood supply and lymphatic drainage







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**Upper Limb:**

- Skeleton and joints
- Muscles, Blood and Nerve supply

**Lower Limb:**

- Skeleton and joints
- Muscles, Blood and Nerve supply

**Abdomen:**

- Abdominal wall muscles
- Peritoneal Cavity
- Gastrointestinal tract and abdominal viscerae
- Structure, blood and nerve supply

**Hepatobiliary:**

- Liver - Structure, Blood supply
- Gall Bladder and Biliary Duct
- Pancreas and Spleen

**Pelvis and Perinieum:**

- Pelvic bone and Joints
- Walls and floor of the pelvic cavity
- Blood and Nerve Supply
- Peritoneal reflection
- Premium - structures

**Urinary System:**

- Kidney - Anatomical relations
- Ureter - course, blood & nerve supply
- Urinary Bladder - structure, blood & nerve supply

**Male and Female Genital Organs**

**Spinal Column**

- Characteristic and variations

**Lymphatic System of Neck, Thorax and Abdomen**



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## II. PHYSIOLOGY

**Gastrointestinal System:**

- Neural control of gastrointestinal function
- Gastrointestinal motility - nervous control

**Reproductive System:**

- Male and female hormones - functions
- Regulation of menstrual cycle
- Changes in pregnancy and lactation

## III. PATHOLOGY

**Haematopoietic System:**

- White and Red blood cell disorders
- Abnormal hemoglobin

**Mechanism of immune mediated injury:**

- Hypersensitivity reactions - type
- Autoimmune disorders

**Metabolic Bone Disorder**

**Genetic disorder:**

- Transmission pattern
- Cytogenetic disorders

**Neoplasia:**

- Effects of tumor on body
- Staging and grading of tumours

**General features of common Infectious diseases**





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# Books Required

1. First Aid (no alternative for this)
2. Physiology → BRS physiology or Ganong
3. Anatomy → Small Snell
4. Neuroanatomy → Kaplan neuroanatomy
5. Pathology → FirstAid (first 8 chapters) or Goljan

# Past Papers

Past papers are key. About 40% paper is repeated

1. GoldStandard FCPS (Key book, no alternative)
   (This is key book as it contains most authentic papers. You have to cram at least 5 pages each day. After your specialty is over move to other specialty. Give at least 20-30mins each day. This book will continue from day 1 of your preparation. It is not available in market so order it on 03100220370)
   After completing papers of your specialty, pick rafi or Sk and start doing mcqs(only if you want to). You will see that you will able to perform 99% of mcqs.
   p.s after your specialty papers are over start doing other specialty as paper 1 is same

2. Rabia Ali
   ( do mcq at end of your each chapter)

3. Sk / rafiullah for practice

# Study Plan

# Anatomy (15 days)

- ❖ GoldStandard FCPS daily 4 pages

- ✓ Now you can join us Online for MD/MS & Fcps Preparation
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- ✓ Join from anywhere using mobile/laptop using internet
- ✓ 100% feasible with job and 100% time adjustment for students
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- ✓ Hostel Facility is also available (for those who want to join physical classes)

- ❖ do rabia ali Mcqs after completing topic

- 15 days complete
- Upper limb 2 days
- Lower limb 2 days
- Abdomen pelvis 2 days
- Head & Neck 2 days
- Neuroanatomy 4 days

## Physiology (15 days)

- ❖ GoldStandard FCPS daily 4 pages
- ❖ do rabia ali Mcqs after completing topic

- Daily 1 chapter

## General Pathology

GoldStandard FCPS daily 4 pages

- ❖ do rabia ali Mcqs after completing topic

- General pathology is enough from goljan / first aid

## Minor Subjects: Do any book

| | |
|---|---|
| ❖ Histology | Goldstandard or first aid |
| ❖ General embryology | any book |
| ❖ General anatomy | any book |
| ❖ Biostats | any book |
| ❖ Biochemistry | any book |

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- Microbiology first aid

## Trick:

**Study Smart**

There are few specific topics which are always repeated in exams

Like foot drop wrist drop etc.

For example examiners won't ask you about 8 steps of kreb cycle.

So better to first read Mcqs to get an idea about important concept and then study for exam. After preparation you can

There is significant time in clearing part 1 exam and then FCPS induction. If you want to clear your exam in One Go, you may join FcpsWorld Online preparation classes.

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