

PRT SYLLABUS MEDICAL

Paper I - Fundamentals of Anatomy, of Physiology & Biochemistry.	-	50 Marks
(Objective)	-	1 1/2 Hour duration
Paper II - (Optional) (Select any one)	-	50 Marks
(Objective)	-	1 1/2 Hour duration

1. ANATOMY

- (i) Morphology and gross general Anatomy above diaphragm with applied and concerning embryology and histology.**
- (ii) Morphology and gross anatomy below the diaphragm with applied and concerning embryology and histology**
- (iii) Neuro-anatomy with applied**

2. PHYSIOLOGY

- (i) General physiology, including History of Physiology**
- (ii) Systemic physiology (system providing transport, nutrition and energy) including comparative physiology)**
- (iii) System physiology including cellular physiology, regulation and neural control**

3. BIO-CHEMISTRY

- (i) General Bio-chemistry, bio-statics, bio-chemical technique**
- (ii) Cell physiology, molecular Biology, and Human genetics**
- (iii) Intermediary metabolism, macro and micro nutrients, inborn errors of metabolism**

4. PATHOLOGY

- (i) General including special Pathology**
- (ii) Systemic including chemical pathology and Histo-Pathology**
- (iii) Clinical Pathology including Haematology and Blood transfusion**

5. MICROBIOLOGY

(i) General Microbiology and Immunology

(ii) Systemic Bacteriology and Mycology

(iii) Virology and Parasitology

6. PHARMACOLOGY

(i) General Pharmacology and applied Pharmacology

(ii) Bioassay and experimental Pharmacology

(iii) Systemic Pharmacology, Chemotherapy & Pharmacological therapeutics.

7.FORENSIC MEDICINE (FMT)

(i) Basic science in Anatomy and Physiology and other allied subjects as applied aspect of Clinical Forensic Medicine. Basic of diseases in clinical medicines.

(ii)Forensic Medicine including Medical jurisprudence including Clinical Forensic medicine

(iii) Forensic Medicine including Forensic Pathology and Forensic Toxicology

8. COMMUNITY MEDICINE (PSM)

(i) Basic & public Health Scheme, nutrition and medical & health statistics. Concept in Community Medicine & principle & practice of epidemiology.

(ii) Epidemiology of communicable and non-communicable diseases, tropical medicine, and health services management including organization and management of rural health scheme principle & practice of health administration.

(iii) Environmental Health, occupational health, demography, family planning and maternity and child health, industrial hygiene

9.OPHTHALMOLOGY (EYE)

(i) Applied basic science (Anatomy, physiology, pharmacology, pathology) related to ophthalmology

(ii) Diseases of eye and ocular manifestation with systemic diseases

(iii) Operative techniques in ophthalmological surgery

10.GENERAL MEDICINE

(i) **Applied basic Medical Science (Anatomy, Physiology, Pathology, Microbiology and Pharmacology) Immunology National Program and preventive strategies. Impact of medical diseases on pregnancy, Dermatology & Psychiatric, Nutrition, Immune system & disease Molecular Cell biology & genetic disease.**

(ii) **General Medicine**

- a. **Intensive Care Medicine**
- b. **Rheumatology & Bone Disease**
- c. **Infectious diseases, Tropical Medicines and STD**
- d. **Environmental Medicine**
- e. **Drug Therapy and Poisoning**

(iii) **Systemic Disease**

- a. **GIT**
- b. **Liver, Biliary and Pancreatic Diseases**
- c. **Malignant disease**
- d. **Renal diseases**
- e. **Cardio-vascular & Respiratory diseases**
- f. **Endocrine & Diabetic and other metabolic diseases**
- g. **Neurological diseases**

11. ENT

(i) **Anatomy, Physiology, Pathology, Microbiology, Biochemistry & acoustic as related to ENT**

(ii) **Diseases of Ear, Nose and Throat**

(iii) **Recent operative technique applied to ear, nose and throat treatment**

12. GENERAL SURGERY

(i) **Applied basic sciences in relation of General Surgery, Urology, Gastroenterology Breast, Endocrines**

(ii) **General Surgery and Surgical diseases of organs above the diaphragm including pre-operative and post operative treatment**

(iii) **General Surgery and Surgical diseases of organs below the diaphragm including pre-operative and post operative treatment**

13. ORTHOPAEDICS SURGERY

- (i) Applied basic science (Anatomy, Physiology, Pathology, Pharmacology & Therapeutics) related to orthopaedic diseases and surgery**
- (ii) General orthopaedic surgery & (pre & post operative management)**
- (iii) General Surgery applied to orthopaedic surgery with pre & post operative management**

14. OBSTETRICS & GYNAECOLOGY

- (i) Basic Medical Science- Anatomy, Physiology, Pathology, Pharmacology etc related to Obst. & Gynae**
- (ii) Gynecology**
- (iii) Obstetrics**

15. ANAESTHESIA

- (i) Applied basic science, Anatomy, Physiology, Pharmacokinetics, Premedication, difficult air way- related to anaesthesia**
- (ii) a) Method & technique of anaesthesia and complication with their management**
 - b) Pharmacology of drugs used in Anaesthesia.**
 - c) Pre-operative and post operative assessment and proper care of the Pt**
- (iii) Clinical Anaesthesia with relation to special regime & disease complication & management.**

16. PAEDIATRICS

- (i) Applied Basic Science, Anatomy, Physiology & Pharmacology as related to Pediatrics.**
- (ii) Social and Preventive Pediatrics neonatal disorders and child psychology.**
- (iii) (a) General Medicine as applied to Pediatrics & community pediatrics.**
 - (b) Therapeutics in relation to diseases of children.**

17. RADIO-DIAGNOSIS

- (i) Applied basic science including isotopes and Radio-Physics related to Radiology.**
- (ii) Radio-diagnosis related to General Medicines and Surgery contents above the diaphragm, Bones and joints.**
- (iii) General Paper in Radiology,**
 - Radio-diagnosis of the content below the diaphragm.**

18. Skin & VD

- (i) **Basis Science of Skin, S.T.D., Leprosy (Anatomy, Physiology Biochemistry and Pharmacology.)**
- (ii) **Disease of Skin STD & Leprosy, Therapeutic in relation of diseases, of Skin.**
- (iii) **Histopathology of Skin, STD, Leprosy Diseases.**
 - **Dermatosurgery Cosmetology.**

19. Physical medicine & rehabilitation (PMR)

- (i) **Basis Science - Anatomy, Physiology, Pathology, Pharmacology and Biochemistry as applied to Physical Medicine and Rehabilitation.**
- (ii) **Medical Science applied to physical medicines & rehabilitation including surgical aspect.**
- (iii) **Physical Medicine, Rheumatology and Rehabilitation including recent advances.**

20. Psychiatry

- (i) **Psychological Medicines, Chemical Psychiatics including management and therapeutics.**
- (ii) **Disease of Nervous System, Organic Psychiatry.**
- (iii) **Pathology and Pharmacology in relation to psychological medicine, psychopathology psychometry.**

21. Radiotherapy

- (i) **Principal of Racliation Therapy – Tele therapy – Brachy-therapy Principals of Radiation Physics and their clinical application.**
 - **Radiation protection.**
- (ii) **Pathology and pathogenesis of Malignancies, Pathological Classification, staging & their importance in treatment.**
- (iii) **Clinical aspects of Malignancies.**

22. Plastic Surgery

- (i) **Surgical Anatomy, Physiology, Biochemistry, Pharmacology as applied to Plastic Surgery.**
- (ii) **General Surgery as applied to plastic surgery.**
- (iii) **Orthopaedics Surgery & ENT as applied to plastic surgery.**