

SYLLABUS FOR THE POST OF REFRACTIONIST, T&S GRADE - D (INTERNAL)

Internal Circular No. CRP/PER/R/2026/309, Dt. 30.05.2026

PART-I (Subject)

1. UNIT – I : OCULAR ANATOMY

General Human Anatomy • Anatomy and Histology of Human Eye and Adnexa • Visual Pathways • Reflex Pathways • Orbit and Surrounding Structures • Extra Ocular Muscles • Motor, Sensory and Autonomic Nerve Supply • Blood and Lymph Supply • Dissection of Animal's Eye • Microscopy

2. UNIT – II : OCULAR PHYSIOLOGY

Metabolism of the Eye • Intraocular Fluid • Intraocular Pressure • Intraocular Muscles • Mechanism of Accommodation • Pupillary Reaction • Action of Extra Ocular Muscles • Monocular and Binocular Movements • Convergence • Accommodation

3. UNIT – III : PHYSIOLOGY & PSYCHOLOGY OF VISION

Action of Light on Retina • Central and Peripheral Vision • Adaptation • Contrast • Glare • Light Sense • Form Sense • Colour Sense • Theories of Colour Vision • Binocular Vision • Retinal Correspondence • Fusion • Horopter • Diplopia • Stereoscopic Vision • Perception • Illusions • Anomalies of Vision

4. UNIT – IV : PHARMACOLOGY, BIOCHEMISTRY & HOSPITAL PROCEDURES

Pharmacology • Biochemistry • Hospital Procedures

5. UNIT – V : DISEASES OF THE EYE, DRUGS & DIAGNOSTIC INSTRUMENTS

Diseases of the Eye • Drugs • Diagnostic Instruments

6. UNIT – VI : OPTICS

Visual Apparatus • Optical System of the Eye • Visual Angle • Retinal Image • Fundus • Field of Vision • Visual Acuity • Accommodation • Clinical Testing of Visual Acuity • Test Charts • Pinhole Disc

7. UNIT – VII : REFRACTION OF THE EYE

Optics of Refraction • Ametropia • Astigmatism • Hypermetropia • Myopia • Spectacle Refraction • Optometers • Isikonic Lenses • Astigmatic Charts • Cross Cylinder • Duochrome Test

8. UNIT – VIII : OPHTHALMIC INSTRUMENTS

Ophthalmoscope • Retinoscope • Keratometer • Lensometer

9. UNIT – IX : ACCOMMODATION, CONVERGENCE & MAGNIFYING DEVICES

Accommodation • Convergence • AC/A Ratio • Spectacle Magnification • Binocular Vision Through Spectacles • Prisms • Visual Aids

10. UNIT – X : ANISOMETROPIA, ANISEIKONIA, SPECIAL TECHNIQUES OF REFRACTION & CONTACT LENSES

Anisometropia • Aniseikonia • Prescribing for Anisometropia • Size Lenses • Binocular Refraction • Vision Screening • Preschool and School Vision Screening • Spectacle Lenses • Rigid Contact Lenses • Soft Contact Lenses • Fitting Techniques

PART-II (General Studies)

1. General Knowledge
2. General English
3. Quantitative Aptitude & Numerical Ability
4. Test of Reasoning
5. Computer Basics