

पाटन स्वास्थ्य विज्ञान प्रतिष्ठान, सेवा आयोग
प्राज्ञिक सेवा, आँखा रोग समूह, सहायक प्राध्यापक पद, नवौं ख (९ ख) तहको
खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Paper II: Technical Subject
Section (A) - 45 Marks

1. **Anatomy, Physiology and Developmental anomaly of**
 - 1.1 Eyelids
 - 1.2 Orbit
 - 1.3 Eye Ball
2. **Optics & Refraction**
 - 2.1 Refractive errors
 - 2.2 Contact lens
 - 2.3 Low vision aids
 - 2.4 Refractive surgeries
3. **Conjunctiva**
 - 3.1 Applied Anatomy and physiology of conjunctiva
 - 3.2 Conjunctivitis: types, causes, clinical features
 - 3.3 Degenerative conditions
 - 3.4 Tumors
4. **Cornea**
 - 4.1 Applied Anatomy, physiology and innervations of cornea
 - 4.2 Types of keratitis
 - 4.3 Corneal ulcers
 - 4.4 Dystrophies & Degenerations
 - 4.5 Keratoplasty
5. **Sclera**
 - 5.1 Applied anatomy of sclera in relation to Squint and retinal detachment surgeries.
 - 5.2 Episcleritis
 - 5.3 Scleritis
 - 5.4 Sclerokeratitis
6. **Lids and ocular adnexa, orbit & lacrimal system**
 - 6.1 Applied anatomy and physiology
 - 6.2 Common eye lids conditions: Styte, Chalazion, Blepharitis, Ectropion and Entropion
 - 6.3 Proptosis
 - 6.4 Ptosis.
 - 6.5 Dacryocystitis.
 - 6.6 Common eye lids tumors
7. **Strabismus**
 - 7.1 Binocular single vision & anomalies
 - 7.2 Extraocular muscles and ocular motility
 - 7.3 Strabismus: Definition, Classification and management

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9. **Investigations in ophthalmology: X-Ray of orbit, USG, OCT, Fluorescence angiography**
10. **Electrophysiology: ERG / VEP**

Section (B) - 55 Marks

11. **Crystalline lens**
 - 11.1 Applied Anatomy and physiology of lens
 - 11.2 Cataract: type and causes of cataract.
 - 11.3 Management of cataract and phacoemulcification.
12. **Glaucoma**
 - 12.1 Anatomy of angle structures and its clinical implications
 - 12.2 Glaucoma: classification of glaucoma and diagnosis.
 - 12.3 Surgical management
 - 12.4 Antiglaucoma drugs
13. **Uveal tract**
 - 13.1 Anatomy and physiology of uveal tract and clinical significance
 - 13.2 Uveitis: types and aetiopathology of uveitis
14. **Retina & Vitreous**
 - 14.1 Applied anatomy, physiology and blood circulations of retina and vitreous
 - 14.2 Diabetic and Hypertensive retinopathy
 - 14.3 Retinal Detachment
 - 14.4 Retinal vascular occlusive disorders
 - 14.5 Retinopathy of prematurity
 - 14.6 Age related macular degeneration
 - 14.7 Retinal tumors
15. **Ocular emergencies and Injuries**
 - 15.1 Classification of ocular injuries.
 - 15.2 Traumatic hyphaema
 - 15.3 Intraocular foreign body (s)
 - 15.4 Chemical Burns of eye
16. **Parasitic & Protozoal infestations of eye**
17. **Effects of High altitude on eye**
18. **Anti VEGF in ophthalmology**

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