

Paper II: Technical Subject

- 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 Differential diagnosis of Conjunctivitis with other red eye conditions.
 - 3.2 Management of ophthalmia neonatorum
 - 3.3 Tumors

- 4. Cornea**
 - 4.1 Applied Anatomy, physiology and innervations of cornea in relation tokeratorefractive surgery and cataract surgery.
 - 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 Sclerokaratitis

- 6. Crystalline lens**
 - 6.1 Applied Anatomy and physiology of lens
 - 6.2 Cataract: type and causes of cataract.
 - 6.3 Management of cataract.
 - 6.4 Recent advances in cataract surgeries
 - 6.5 Challenges in management of complicated cataract.

- 7. Lids and ocular adnexa ,Orbit & lacrimal system**
 - 7.1 Applied anatomy and physiology in relation to surgeries of lids and ocular adnexa, lacrimal system(NLD) and orbit.

पाटन स्वास्थ्य विज्ञान प्रतिष्ठान सेवा आयोग
प्राज्ञिक सेवा, आँखारोग समूह, सहप्राध्यापक दशौं (१०) तहको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको
पाठ्यक्रम

- 7.2 Proptosis
 - 7.3 Ptosis.
 - 7.4 Common orbital tumours and its surgical management.
 - 7.5 Common eye lids tumors
 - 7.6 Recent advances in management of nasolacrimal duct (NLD) block in various age groups.
- 8. Glaucoma**
- 8.1 Anatomy of angle structures and its clinical implications
 - 8.2 Glaucoma: classification of glaucoma and diagnosis.
 - 8.3 Surgical management
 - 8.4 Antiglaucoma drugs
- 9. Uveal tract**
- 9.1 Anatomy and physiology of uveal tract and clinical applications
 - 9.2 Uveitis: types and aetiopathology and management of uveitis.
 - 9.3 Management of uveitic cataract.
- 10. Retina & Vitreous**
- 10.1 Applied anatomy, physiology and blood circulations of retina and vitreous
 - 10.2 Ocular complications of Systemic diseases and it's managements; e.g. Diabetic and Hypertensive retinopathy, Retinopathy of prematurity, Retinal vascular occlusive disorders, thyroid related ophthalmology, pregnancy related retinopathy etc.
 - 10.3 Retinal Detachment
 - 10.4 Age related macular degeneration and recent advances in its management.
 - 10.5 Anti VEGF
 - 10.6 Retinal tumors
 - 10.7 Vitreous surgeries
- 11. Strabismus**
- 11.1 Binocular single vision & anomalies
 - 11.2 Extraocular muscles and ocular motility
 - 11.3 Strabismus: Definition, Classification and management.
 - 11.4 Amblyopia and its management
- 12. Ocular emergencies and Injuries**
- 12.1 Classification of ocular trauma/injuries.
 - 12.2 Diagnosis, management and prevention of ocular injuries
 - 12.3 Intraocular foreign bodies
 - 12.4 Chemical Burns of eye

- 13. Ocular investigations in ophthalmology:**
X-Ray of orbit, Ocular USG, Fluorescence angiography, OCT, CT and MRI Scan.
 - 14. Ocular Pathology**
 - 14.1 Ocular histology
 - 14.2 Ocular microbiology
 - 14.3 Ocular immunology
 - 15. Parasitic and Protozoal infestations of eye**
 - 16. Effects of High altitude on eye**
 - 17. Recent advances in diagnosis and management of Dry Eye.**
 - 18. LASER in ophthalmology**
 - 19. Ocular gene therapy**
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