

Paper II: Technical Subject

1. Orbit and eye lids disorder

- 1.1 Orbital fractures
- 1.2 Proptosis
- 1.3 Ptosis
- 1.4 Entropion /Ectropion
- 1.5 Lid's tumour
- 1.6 Orbital tumors
- 1.7 Lacrimal gland tumour

2. Cataract

- 2.1 Classification and aetiopathogenesis of cataract
- 2.2 Age related and diabetic cataract. Pathogenesis, evaluation and management
- 2.3 Evaluation of congenital/pediatric cataract and management
- 2.4 Recent trends in cataract surgeries

3. Glaucoma

- 3.1 Pathogenesis of glaucoma and classification.
- 3.2 Medical and Surgical management of glaucoma
- 3.3 Evaluation and management of congenital glaucoma
- 3.4 Laser glaucoma Surgeries

4. General Medicine: Inter-relation to ophthalmology

- 4.1 Nutritional deficiencies
- 4.2 Metabolic disorders
- 4.3 Demyelinating diseases
- 4.4 Hypertension
- 4.5 Diabetes
- 4.6 Thyroid disease
- 4.7 Connective tissue diseases
- 4.8 AIDS
- 4.9 Leukemias
- 4.10 Retinal vasculitis/ Retinitis
- 4.11 Retinopathies of pre-maturity
- 4.12 Retinopathies in toxemias of Pregnancy
- 4.13 Phacomatosis

5. Diseases of Retina and Vitreous

- 5.1 Age related macular degeneration, Pathophysiology, classification and recent advances in management

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- 5.2 Retinal degenerations and dystrophy. Recent advances in diagnosis and management of retinitis pigmentosa
 - 5.3 Intraocular inflammation: causes, diagnosis and management.
 - 5.4 Tumors of retina and choroid, diagnosis and management: Retinoblastoma, Cavernous hemangioma and Choroidal melanoma.
 - 5.5 Recent advances in Retinal and vitreo-retinal surgeries.
- 6. Neuro-Ophthalmology**
- 6.1 Ophthalmic manifestations of brain tumors
 - 6.2 Ophthalmic manifestations of vascular diseases of the brain.
 - 6.3 Optic Neuritis/ Optic atrophy
 - 6.4 Migraine
 - 6.5 Cranial nerves and its disorder.
 - 6.6 Visual pathways and its disorders
 - 6.7 Myasthenia gravis
 - 6.8 Optic Nerve tumors
- 7. Investigations in Ophthalmology**
- 7.1 X-ray orbit
 - 7.2 USG
 - 7.3 Fluoresce angiography
 - 7.4 Indocyanine Green (ICG)
 - 7.5 OCT
 - 7.6 CT /MRI scan
 - 7.7 Electrophysiological tests of retina
- 8. Optics and Refraction**
- 8.1 Contact Lenses
 - 8.2 Refractive Surgeries
- 9. Evaluation and management of strabismus.**
- 10. Microbial & parasitic infections of eye and their management**
- 11. Ocular injury /trauma: Principle of diagnosis, management of ocular injury and prevention**
- 12. Effects of High altitude on eye**
- 13. LASER in ophthalmology**
- 14. Radiotherapy in ophthalmology**

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- 15. Oculoplastic and orbital surgery**
 - 15.1 Basics of oculoplastic surgery
 - 15.2 Enucleation and Evisceration
 - 15.3 Ptosis surgery
 - 16. Ocular pathology**
 - 16.1 Ocular histology
 - 16.2 Ocular microbiology
 - 16.3 Ocular immunology
 - 17. Ocular Toxicity of Drugs in lens, macula and optic nerve**
 - 18. Ocular emergency**
 - 19. Recent advances in ocular gene therapy**
 - 20. Organ Transplantation act 2055. Issues in corneal transplantation.**
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