

Write short Notes on:

1. Define & classify pseudotumour of the orbit. Enumerate the clinical features, differential diagnosis of the condition. Make a flow chart on management of a 55 year old presenting with pseudotumour of right orbit.
2. VISCOELASTICS: Physical properties, classification, uses, side effects. Name some common ones used in ophthalmic surgery.
3. Discuss classification of trachoma and pathological changes seen in each stage.
4. Multiple Sclerosis – Clinical features in ophthalmology. Also enumerate associated systemic features. Discuss management and prognosis of the disease.
5. Ocular manifestations of leukemia. Highlight the differential diagnosis of each sign.
6. Ocular manifestation of AIDS. Its differential diagnosis and treatment.
7. Define clinically significant macular edema in diabetic retinopathy. Discuss its pathophysiology and management.
8. Xerophthalmia – Etiopathogenesis, classification, management. Write measures to prevent the disease from occurring in the siblings of the patient.
9. Recent advances in the management of viral keratitis.
10. Macular Hole – classifications, stages, etiopathogenesis. Briefly enumerate the various investigations to confirm and prognosticate macular hole.

Write short Notes on:

1. Role of amniotic membrane in ophthalmic surgery. Describe one such surgery in detail. What are the side effects of this technique?
2. Buphthalmos – Clinical features, differential diagnosis, management .Outline steps of surgical modality to treat the same.
3. Clinical features, differential diagnosis and management of acute post operative endophthalmitis.
4. Amblyopia – classification, etiopathology and management. Define its role in blindness in our country.
5. Visual impairment classification by WHO. Briefly discuss common causes of visual impairment in India and remedial steps.
6. Ocular ischemic syndrome. Describe clinical features, etiology, differential, diagnosis & management.
7. Visual acuity in pre verbal children – its relevance and methods of evaluation. Clarify concept of critical period of visual development.
8. Limbal cell deficiency – Clinical entities, symptomatology and treatment. Briefly enumerate stem of Limbal cell transplantation.
9. Sideross Bulbi – Clinical picture management of retained intraocular metallic foreign body. Surgical steps of retained retinal foreign body removal.
10. Congenital Cataract. Etiopathogenesis, management strategies and prognosis.

Write short Notes on:

1. Selective laser trabeculoplasty: mechanism of action, technique, indications and effects. Briefly compare with argon laser trabeculoplasty.
2. Define pachymetry? What are various ways of doing it. Describe the advantages and disadvantages of each method.
3. Discuss differential diagnosis and management of proptosis in a seven year old child.
4. Preparations, dosage, routes and indications of steroids in uveitis. Describe side effects of steroids in the eye.
5. Cytomegalovirus Retinitis – clinical features, management, prognosis.
6. VEGF – Define, source in eye, their role in disease and their modulation.
7. Duane's retraction syndrome. Classification, etiopathogenesis and management.
8. Eye Banking – Define concepts. Discuss role of cornea preserving media. Describe Strategies to improve corneal donation. Comment on current status of eye banking in India.
9. Acute onset III nerve Palsy. Etiopathogenesis, management, differential diagnosis and prognosis.
10. Relevance of various clinical trials in diabetes and eye-their contribution in current management of diabetes complications in the eye.

Write short Notes on:

1. Metabolic activities in crystalline lens and their role in causation of senile cataract.
2. Physiology of corneal transparency: Factors responsible and theories.
3. Describe indication, contraindications, mechanism of action and complication of immunomodulatory agents in ophthalmology.
4. Describe the gross and micro-anatomy of angle of anterior chamber and development of structures framing angle of anterior chamber.
5. Discuss physiology of visual perception.
6. Describe the blood supply of optic nerve and its role in pathogenesis of ischemic optic neuropathy.
7. Describe theories of color vision and genetics of color blindness.
8. Describe salient features of the various dyes used in ophthalmology. Give their indications and complications.
9. Discuss supra nuclear control of eye movements.
10. Describe optics of a pseudophakic eye.



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Write short Notes on:

1. Discuss mechanism of action and side-effects of prostaglandins used in glaucoma. compare the various prostaglandins currently in use for glaucoma management
2. Cystoid macular edema: pathophysiology, diagnosis and treatment
3. Pathophysiology, clinical picture and management of Mooren's ulcer
4. Clinical features, investigations treatment & prevention strategies for trachoma
5. Pathological features and their significance in management of retinoblastoma
6. Etiology, clinical features and treatment of ocular toxoplasmosis
7. Causes, investigations and surgical management of vitreous hemorrhage
8. Causes and management of subluxated lens in a child
9. Clinical features and management of intraocular cysticercosis
10. Discuss mechanism and management of lid retraction in thyroid eye disease



Write short Notes on:

1. Clinical signs and treatment of acute retinal necrosis
2. Care of corneal endothelium in intraocular surgery
3. Chemical adjuvants, internal tamponading agents & sustained drug delivery device in vitreo-retinal surgery
4. Causes of failure of dacryo-cysto-rhinostomy. Discuss the management of failed DCR
5. Clinical features and management of complicated congenital ptosis
6. Localization, management & complications of retained intraocular copper foreign body
7. Evaluation of DISC & peripapillary region in primary open angle glaucoma
8. Etiology , clinical features and management of fuch's heterochromic uveitis
9. Discuss hysterical blindness and its management
10. Recent advances in intra-ocular lenses

Write short Notes on:

1. Pathology, clinical features, diagnosis and management of lacrimal gland tumors
2. Clinical presentation and management of nephritic conditions causing uveitis
3. Visual field defects in pituitary tumors
4. Causes & recent advances in management of papilloedema
5. Principles of management of A-V pattern strabismus
6. Dynamic contour tonometer
7. NPDS in glaucoma – steps of surgery, indications and limitations
8. Discuss types and management of giant retinal tear
9. Discuss etiology, clinical features and management of peripheral ulcerative keratitis
10. Deep lamellar endothelial keratoplasty- indications and steps of surgery

Write short Notes on:

1. Visual rehabilitation in keratoconus
2. Microbiology and pathology of bacterial corneal ulcer
3. Principles & types of gonioscopes
4. Transillumination – types and clinical application in ophthalmology
5. Fluorescein angiography – principle and clinical application
6. Correction of hypermetropia and presbyopia
7. Prevention of HIV infection in contact lens practice
8. Optical and non – optical Aids in correction of low vision
9. Discuss the anatomy of orbital spaces and its clinical importance
10. Contrast sensitivity