**RETINA**

1. Topographical anatomy of the retina

2. Histological structure of the retina

3. Clinical examination techniques of the retina

4. Semiology of retinal diseases (Clinical signs)

5. Diabetic retinopathy: Pathogenesis and Classification

6. Non-Proliferative Diabetic Retinopathy (NPDR)

7. Proliferative Diabetic Retinopathy (PDR)

8. Treatment of diabetic retinopathy

9. Retinopathy of prematurity

10. Retinal detachment: Pathogenesis, Clinical syptoms and signs, Examination techniques

11. Retinal detachment: Classification

12. Retinal detachment: Treatment

13. Clinical symptoms and signs of macular disease; Macula examination techniques

14. Macular edema

15. Myopic maculopathy

16. Non-exudative Age-related macular degeneration

17. Exudative Age-related macular degeneration

18. Arteriosclerosis of retinal vessels

19. Hypertensive retinopathy

20. Central retinal artery occlusion

21. Branh retinal artery occlusion

22. Central retinal vein occlusion

23. Branch retinal vein occlusion

24. Fundus fluorescein angiography

25. Laser photocoagulation treatment of retinal disorders

**BINOCULAR VISION; CONCOMITANT (COMITANT) STRABISMUS**

1. Worth's stages of binocular vision

2. Development of Binocular Vision

3. Motor component of binocular vision

4. Sensory component of binocular vision

5. Horopter, Panum's fusional space

6. Assessment of oculomotor balance

7. Sensory anomalies in strabismus

8. Suppresion (compensatory mechanism for double vision)

9. Amblyopia: Causes and Classification

10. Anomalous retinal correspodence (ARC)

11. Eccentric visual fixation

12. Principles and goals of strabismus treatment

13. Tretment of amblyopia

14. Therapeutic methods for reducing angle deviation in strabismus

15. Strabismus surgery

16. Weakening procedures in strabismus surgery

17. Strengthening procedure in strabismus surgery

18. Concomitant strabismus: Clinical signs and Classification

19. Esotropia: Definition and Classification

20. Accommodative esotropia

21. Exotropia: Definition and Classification

22. Heterophoria (Latent squint)

23. Pleoptics techniques

24. Orthoptics techniques

25. Synoptophore

**PARALYTIC (INCOMITANT) STRABISMUS; NYSTAGMUS**

1. Extraocular muscles: Anatomy

2. Innervation of extraocular muscles

3. Monocular eye movements (Ductions)

4. Binocular eye movements (Versions, Vergences)

5. Sherrington‘s and Hering's law of action of extraocular muscles

6. Extraocular muscles: Primary, Secondary and Tertiary functions

7. Horizontal eye movements

8. Vertical eye movements

9. Superior and inferior oblique muscles: Functions

10. Paralytic strabismus: Clinical symptoms and signs

11. Primary and Secondary angle of deviation

12. Ocular torticollis

13. Diplopia examination in paralytic strabismus

14. Hess-Lancaster test: Interpretation of the chart

15. Incomitant strabismus: Classification, Etiology and Differential diagnosis

16. Neurological Incomitant strabismus

17. Restrictive Incomitant strabismus

18. Third nerve palsy

19. Fourth nerve palsy

20. Sixth nerve palsy

21. Medical and surgical treatment of paralytic strabismus

22. Nystagmus: Definition and Classification

23. Physiological Nystagmus: Classification

24. Ocular nystagmus (Sensory deprivation)

25. Motor imbalance nystagmus