- 1. Layers of the eyeball. Structure, functions.
- 2. Apparatus of eye movement. Functions and innervation.
- 3. The fibrous coat of the eyeball. Function, structure and innervation.
- 4. The vascular layer of the eyeball. Structure, parts, function and blood supply.
- 5. Retina. Structure, blood supply and function.
- 6. Optic nerve, visual pathway and visual centres.
- 7. The transparent structures of the eyeball the cornea, the lens and the vitreous body. Structure and function.
- 8. Blood supply of the eye.
- 9. The orbit. Structure. Fissures of the orbit, nerves and blood vessels.
- 10.Lacrimal organs and tracts.
- 11.Intraocular muscles. Function and innervation.
- 12.Chambers of the eyeball. Drainage system of the eye, structure of the iridocorneal angle.
- 13. Conjunctiva. Structure.
- 14. The lens-structure, topography and function.
- 15. The eyelids structure, function, innervation and blood supply.
- 16. Visual acuity, its examination.
- 17. Color vision. Color vision testing.
- 18.Peripheral vision. Its outer aspects. Methods of examination. Pathology of visual fields.
- 19. Binocular vision. Methods of examination.
- 20. Accommodation. Its mechanism. Pathologic and physiologic alterations (spasm and palsy).
- 21.Refraction. Its clinical types. Subjective and objective methods of examination of refraction. Myopia Its development, types, degrees, clinic, correction and complications. Hyperopia Diagnostics, degrees and correction.
- 22. Astigmatism. Types and correction.
- 23. Anisometropia. Their correction.
- 24.Red eye syndrome. (Lid margin diseases-blepharitis, hordeolum, parasitic; Conjunctivitis, subconjunctival hemorrhage, pterygium, dry eye syndrome, keratitis, diseases of the sclera, acute glaucoma attack, iridocyclitis). Differential diagnosis, clinic, treatment and prevention.
- 25.Dacryocystitis (acute, chronic and infants) Phlegmona of the lacrimal sac.
- 26.Keratoconus. Diagnosis, clinic and treatment.
- 27.Cataract. Clinic, types and diagnosis.
- 28.Diseases of the vitreous body (floaters, hemorrhages, cysticercus) clinic and treatment.
- 29. Age-related cataract, stages clinic and treatment.
- 30. Congenital cataracts. Clinic and treatment.
- 31. Acquired cataracts. Clinic and treatment.

- 32.Complicated cataracts (glaucomatic, diabetic, heterochromic). Clinic and treatment.
- 33.Circulation of intraocular fluid. Intraocular pressure. The angle of anterior chamber, method of examination. Hypertension and hypotension.
- 34. Glaucoma. Types of glaucoma, diagnosis and treatment.
- 35.Congenital glaucoma. The cardinal signs. Treatment.
- 36. Dynamic classification of primary glaucoma.
- 37. Secondary glaucoma. Diagnosis and treatment.
- 38.Diseases of the retina. Ophthalmic picture alterations associated with hypertension.
- 39. Ophthalmic picture alterations associated with common diseases.
- 40. Destroy of retinal blood circulation (emboli of central retinal artery, spasm).
- 41. Thrombosis of central vein. Clinic and treatment.
- 42. Diabetic retinopathy. Clinic, stages and treatment.
- 43. Chronic visual loss. Causes, differential diagnosis and tactics.
- 44. Acute visual loss. Causes, clinic, diagnosis and treatment.
- 45.Retinal dystrophy (senile, retinitis pigmentosa). Ophthalmoscopic picture and treatment.
- 46. Retinal detachment, causes, ophthalmoscopic picture and treatment.
- 47.Retinal tumors (retinoblastoma). Ophthalmoscopic picture, treatment and prognosis.
- 48. Retinopathy of prematurity. Diagnosis and treatment.
- 49.Inflammatory diseases of the optic nerve (neuritis, retrobulbar neuritis) diagnosis and treatment.
- 50. Edematous optic nerve. Diagnosis and treatment. Atrophy of the optic nerve.
- 51.Strabismus, primary and secondary deviation. Examination of the deviation angle. Treatment.
- 52. Paralytic strabismus. Diagnosis and treatment.
- 53. Amblyopia. Causes.
- 54.Syndrome of superior orbit fissure.
- 55. Traumas of the eye (erosion, hemorrhage, traumatic cataract, retinal holes and retinal detachment). Diagnosis and treatment.
- 56.Penetrate injury of the eye. Diagnostic, treatment, complications. Diagnostic and localization methods of intraocular foreign body.
- 57. The complications of the penetrate injury (endophthalmitis, panophthalmitis), diagnostic and treatment.
- 58.Eye burning (thermal, chemical, radiation), primary care, treatment and prognosis.
- 59. Behcet's disease, Stevens-Johnson syndrome, Rieger syndrome, Marcus Gunn syndrome, Marin-Amat syndrome, Crouzon syndrome, Franceschetti syndrome, Marfan syndrome, Sjogren's syndrome, Mikulicz syndrome, Charlin's syndrome.