- 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. Innervation of the eye apparatus and the eyeball.
- 9. Blood supply of the eye.
- 10. The orbit. Structure.
- 11. Fissures of the orbit, nerves and blood vessels.
- 12. Lacrimal organs and tracts.
- 13. Intraocular muscles. Function and innervation.
- 14. The facial apparatus of the eye.
- 15. Conjunctiva. Structure.
- 16. Chambers of the eyeball. Iridocorneal angle
- 17. Anterior chamber. Drainage system of the eye, structure of the iridocorneal angle.
- 18. Layers of the retina. Structure.
- 19. The lens-structure, topography and function.
- 20. The eyelids structure, function, innervation and blood supply.
- 21. Visual acuity, its examination.
- 22. Color vision. Color vision testing.
- 23. Peripheral vision. Its outer aspects. Methods of examination. Pathology of visual fields.
- 24. Binocular vision. Methods of examination.
- 25. Accommodation. Its mechanism. Pathologic and physiologic alterations (spasm and palsy).
- 26. Age-related accommodation correction.
- 27. Refraction. Its clinical types.
- 28. Subjective and objective methods of examination of refraction.
- 29. Myopia. Its development, types, degrees and complications.
- 30. Myopia. Diagnostics, clinic, correction and complications.
- 31. Hyperopia. Diagnostics, degrees and correction.
- 32. Clinic of ametropia. Its optical correction. Treatment.
- 33. Nearsightedness-the types of correction (glasses, contact lenses and surgical method).
- 34. Near point and far point of vision.
- 35. Astigmatism. Types and correction.
- 36. Anisometropia. Their correction.
- 37. Diseases of the eye lids (eczema, phlegmona, zoster).
- 38.Lid margin diseases (blepharitis, hordeolum, parasitic).
- 39. Abscess, phlegmona. Treatment.

- 40. Classification of conjunctivitis. Exogenous infectious conjunctivitis (acute epidemical, pneumococcus, gonorrhoeae, diphtheriae, alergic). Diagnosis, clinic, treatment and prevention.
- 41. Classification of conjunctivitis. Clinic and treatment.
- 42. Viral etiology conjunctivitis (herpes, adenoviral). Clinic, treatment and prevention.
- 43. Degenerative diseases of the conjunctiva (pinguecula, pterygium). Conjunctival tumors (papilloma, nevus, hemangioma).
- 44. The dry eye syndrome, diagnosis, clinic and treatment.
- 45. Pathology of lacrimal pathway, diagnosis, clinic and treatment.
- 46. Dacryocystitis (acute, chronic and infants) Phlegmona of the lacrimal sac.
- 47. Keratitis. Classification of keratitis, symptoms, treatment and outcome.
- 48. Exogenous keratitis (erosion, ulcer, fungal). Diagnosis, clinic, treatment and outcome.
- 49. Endogenous keratitis (tubercolosis keratitis, tuberculosis-alergical) diagnosis, treatment and outcome.
- 50. Herpes keratitis. Classification, clinic and treatment.
- 51. Neuroparalytic keratitis, vitamin A keratitis, unknown etiology keratitis. Outcome and treatment.
- 52. Diseases of the sclera (episcleritis, scleritis) clinic and treatment. Staphyloma of the sclera.
- 53. Diseases of the uveal tracts, clinic, treatment and complications.
- 54. Choroiditis, uveitis. Etyology, clinic and treatment.
- 55. Red eye syndrome. Diseases with red eye syndrome. Differential diagnosis.
- 56. Uveal tract`s non-malignant (leioma, cyst, nevus) and malignant (melanoma) tumours.
- 57. Diseases of the vitreous body (floaters, hemorrhages, cysticercus) clinic and treatment.
- 58. Cataract. Clinic, types and diagnosis.
- 59. Age-related cataract, stages clinic and treatment.
- 60. Congenital cataracts. Clinic and treatment.
- 61. Acquired cataracts. Clinic and treatment.
- 62. Complicated cataracts (glaucomatic, diabetic, heterochromic). Clinic and treatment.
- 63. Aphakia. Correction (unilateral and bilateral).
- 64. Senile cataract. Modern methods of cataract surgery.
- 65. Congenital and acquired cataracts. Clinic and treatment.
- 66. Circulation of intraocular fluid. Intraocular pressure. The angle of anterior chamber, method of examination. Hypertension and hypotension.
- 67. Glaucoma. Types of glaucoma, diagnosis and treatment.
- 68. Congenital glaucoma. The cardinal signs. Treatment.
- 69. Dynamic classification of primary glaucoma.
- 70. Acute closed-angle glaucoma attack, clinic, diagnosis and treatment.
- 71. Glaucoma. Conservative and surgical treatment.
- 72. Acute glaucoma attack, acute iritis. Differential diagnosis and treatment.

- 73. Secondary glaucoma. Diagnosis and treatment.
- 74. Glaucoma. Early diagnosis and treatment.
- 75. Diseases of the retina. Ophthalmic picture alterations associated with hypertension.
- 76. Ophthalmic picture alterations associated with common diseases.
- 77. Retinal degeneration (chicken blindness). Treatment.
- 78. Destroy of retinal blood circulation (emboli of central retinal artery, spasm).
- 79. Thrombosis of central vein. Clinic and treatment.
- 80. Diabetic retinopathy. Clinic, stages and treatment.
- 81. Chronic visual loss. Causes, differential diagnosis and tactics.
- 82. Acute visual loss. Causes, clinic, diagnosis and treatment.
- 83. Inflammatory retinal diseases (retinitis, central serous chorioretinitis). Ophthalmoscopic picture and treatment.
- 84. Retinal dystrophy (senile, retinitis pigmentosa). Ophthalmoscopic picture and treatment.
- 85. Retinal detachment, causes, ophthalmoscopic picture and treatment.
- 86. Retinal tumors (retinoblastoma). Ophthalmoscopic picture, treatment and prognosis.
- 87. Inflammatory diseases of the optic nerve (neuritis, retrobulbar neuritis) diagnosis and treatment.
- 88. Edematous optic nerve. Diagnosis and treatment. Atrophy of the optic nerve.
- 89. Pigmentation dystrophy of the retina. Early diagnostic and treatment.
- 90. Retinal tumors (angimatosis, glioma) Diagnosis and treatment.
- 91.Strabismus, primary and secondary deviation. Examination of the deviation angle. Treatment.
- 92. Paralytic strabismus. Diagnosis and treatment.
- 93. Amblyopia. Causes.
- 94. Symptomology of the orbit diseases.
- 95. Inflammatory orbital diseases (bones inflammation, phlegmona, tendonitis), treatment.
- 96. Orbital tumors (hemangioma, cysta, mucocele), treatment.
- 97. Malignant tumors of the orbit (sarcoma, carcinoma), treatment.
- 98. Syndrome of superior orbit fissure.
- 99. Traumas of the eye (erosion, hemorrhage, traumatic cataract, retinal holes and retinal detachment). Diagnosis and treatment.
- 100. Penetrate injury of the eye. Diagnostic, treatment, complications. Diagnostic and localization methods of intraocular foreign body.
- 101. The complications of the penetrate injury (endophthalmitis, panophthalmitis), diagnostic and treatment.
- 102. Intraocular wounds, care for wounds and emergency.
- 103. Eye burning (thermal, chemical, radiation), primary care, treatment and prognosis.
- 104. Types of eye burning, complications and treatment.
- The eyelid wounds.