# LIST OF QUESTIONS AND PRACTICAL TASKS TO PREPARE FOR OPHTHALMOLOGY EXAM FOR STUDENTS OF THE FACULTY OF GENERAL MEDICINE

1. Anatomy of the orbit.
2. Oculomotor system, its innervation.
3. Anatomy of the visual pathway.
4. Structure of the optical apparatus of the eye.
5. Physiology of the formation and outflow of aqueous humor, the structure of the anterior chamber angle. Intraocular pressure.
6. The structure of the retina, physiological processes in the retina.
7. Anatomy and functions of the choroid of the eye.
8. Central vision: anatomical and physiological foundations and methods of examination.
9. Peripheral vision: concept and methods of examination. Types of visual field disorders.
10. Changes in visual fields depending on the level of damage to the visual pathway.
11. Binocular vision: conditions of its formation, methods of examination.
12. Normal pupillary reflex, the pupillary light reflex neural pathway anatomy. Types of abnormal pupillary reflex, their diagnostic value.
13. Syndrome of the upper orbital fissure: disease pattern, diagnostic value.
14. Clinical refraction of the eye: types, path of rays in the eye with different types of refraction. The concept of astigmatism.
15. Methods of correction of refractive errors.
16. Accommodation: physiological significance, mechanisms. Presbyopia: disease pattern, correction.
17. Clinical presentation and complications of progressive myopia.
18. Prevention and treatment of progressive myopia.
19. Amblyopia: concept, classification and methods of treatment.
20. Concomitant strabismus: pathogenesis, disease pattern, differential diagnosis.
21. Methods of treating of concomitant strabismus.
22. Paralytic strabismus: etiology, disease pattern, differential diagnosis and treatment.
23. Congenital dacryocystitis: disease pattern, differential diagnosis, treatment.
24. Chronic dacryocystitis and phlegmon of the lacrimal sac: disease pattern, differential diagnosis, treatment.
25. Dacryoadenitis: disease pattern, differential diagnosis, treatment.
26. Eyelid diseases: blepharitis, stye, chalazion. Disease pattern, treatment.

27. Acute bacterial conjunctivitis: etiology, clinical symptoms, treatment.
28. Differential diagnosis of red eye syndrome.
29. Adenoviral conjunctivitis: differential diagnosis, treatment.
30. Gonoblenorrhea in newborns and adults: disease pattern, prevention, treatment.
31. Diphtheria conjunctivitis: clinical forms, differential diagnosis, treatment.
32. Chlamydial conjunctivitis: etiology, clinical forms, diagnosis, treatment.
33. Dry eye syndrome: etiology, disease pattern, indications for consultation with other specialists, principles of treatment.
34. General symptomatology of corneal inflammation.
35. Herpetic keratitis: clinical forms, principles of treatment.
36. Bacterial (purulent) corneal ulcer: etiology, disease pattern, treatment.
37. Anterior uveitis (iridocyclitis): classification and disease pattern, diagnosis, principles of therapy.
38. Posterior uveitis (choroiditis): classification and disease pattern, diagnosis, principles of therapy.
39. Abscess and phlegmon of the orbit, causes, disease pattern, treatment.
40. Congenital cataract: causes of development, clinical forms, indications for surgical treatment.
41. Acquired cataracts, etiology, pathogenesis, treatment. Complications.
42. Surgical treatment of cataracts. Disease pattern and correction of aphakia.
43. Primary glaucoma: classification, criteria for determining the stage of the disease.
44. Open-angle glaucoma: pathogenesis, clinical presentation and treatment.
45. Angle-closure glaucoma: pathogenesis, disease pattern, differential diagnosis and treatment of an acute glaucoma attack.
46. Congenital glaucoma: pathogenesis, clinical presentation and treatment.
47. Secondary glaucoma: classification, disease pattern, treatment.
48. Neoplasms of the eyelids and paraorbital region, disease pattern, treatment.
49. Melanoma of the choroid of the eye: disease pattern, treatment.
50. Retinoblastoma: disease pattern, treatment.
51. Orbital tumors: disease pattern, treatment.
52. Injuries of the appendages of the eye: first aid, features of surgical treatment of eyelid wounds.
53. Closed eyeball injury: disease pattern, treatment.
54. Absolute and relative signs of open eyeball injury, first aid.
55. Penetrating wound of the eyeball with the introduction of a foreign body: disease pattern, methods of localization and indications for the removal of intraocular foreign bodies.
56. Complications of eye injury: wound infection (iridocyclitis, endophthalmitis, panophthalmitis) methods of prevention and treatment

57. Complications of eye injury: sympathetic ophthalmia, metallosis, phacoanaphylactic glaucoma, methods of prevention and treatment.
58. Burns of the eyeball: clinical classification depending on severity, first aid.
59. Features of eye damage by various types of radiation, disease pattern, treatment.
60. Fundus changes in essential and symptomatic arterial hypertension, gestosis of pregnant women.
61. Fundus changes in blood diseases
62. Complications of diabetes mellitus from the retina and vitreous body.
63. Eye pathology in thyroid pathology
64. Ocular manifestations of HIV infection and AIDS.
65. Papilledema: etiology, pathogenesis, clinical stages.
66. Optic neuritis (papillitis): etiology, diagnosis and principles of treatment.
67. Retrobulbar optic neuritis: etiology, diagnosis and principles of treatment.
68. Circulatory disorders in the optic nerve (posterior ischemic neuropathy), etiology, disease pattern, emergency care.
69. Circulatory disorders in the optic nerve (anterior ischemic neuropathy) etiology, disease pattern, emergency care.
70. Central retinal artery occlusion: etiology, disease pattern, emergency care.
71. Central retinal vein occlusion: disease pattern, treatment.
72. Retinal detachment: causes, disease pattern, principles of treatment.
73. Age-related macular degeneration: risk factors, clinical forms, treatment, prevention.
74. Eye pathology in infectious diseases (measles, chickenpox, rubella, scarlet fever).
75. Retinopathy of prematurity: stages, etiopathogenesis, principles of treatment and prevention.

**Practical tasks:**

1. Evaluate the results of visometry
2. Evaluate the refractometry results
3. Evaluate the results of perimetry and propose the pathology
4. Evaluate the IOP level