Questions to offset the course " Ophthalmology”

1. Ophthalmology as a science and a subject of teaching. The role and place of ophthalmology among other clinical disciplines.

2. The main stages of development of ophthalmology. The work of prominent scientists. Modern achievements of science and practice.

3. Eyeball. The size and shape of the eyeball in people of different ages.

4. The outer shell of the eye, its components, structure, function, nutrition, innervation and research methods.

5. The muscles of the eyes, their structure, function, and innervation.

6. Blood supply and innervation of the visual organ.

7. Conducting pathways of the visual analyzer. Types of peripheral vision disorders depending on the level of visual pathway damage.

8. Structure, function, blood supply to the eyelids.

9. Lens. Age features of structure, function, nutrition and research methods.

10. Vitreous. Age features of structure, function, nutrition and research methods.

11. The optical system of the eye is normal and pathological.

12. Retina. Features of the structure. The mechanism of visual perception, research methods.

13. Aqueous humor. Place of production, function, outflow ways.

14. Chamber of the eye. Research and inspection methods.

15. Auxiliary apparatus of the eye (eye socket, muscles, eyelids, lacrimal organs, conjunctiva), structure and functions.

16. Color vision. The main signs of color. Trichromatic nature of color vision. Types of congenital and acquired color vision disorders.

17. Light perception. The concept of the threshold of light perception. Features of day, twilight and night vision. Dark adaptation.

18. Central vision. The concept of angle of view. Age features of the structure of the macular zone of the retina.

19. Peripheral vision. The concept of the field of view. The boundaries of the field of view on white and other colors. Physiological scotomas.

20. Objective methods of research in ophthalmology.

21. Methods of investigation of the anterior segment of the eyeball.

22. Methods of investigation of visual functions (light perception, visual acuity, color perception, field of vision).

23. Radiological methods of examination in ophthalmology, indications, possibilities.

24. Clinical characteristics of emmetropia, myopia, hypermetropia and astigmatism. Features of correction.

25. Progressive myopia. Diagnosis, treatment and prevention.

26. Allergic conjunctivitis. Classification, clinic, diagnosis and treatment principles.

27. Bacterial and endogenous diseases of the cornea. Classification, clinic, treatment principles, outcomes, medical examination.

28. Herpetic keratitis. Classification, clinic, treatment principles.

29. Anomalies of the cornea. Classification, clinic, diagnosis, treatment principles.

30. Chronic conjunctivitis. Classification, clinic, treatment principles.

31. Age-related cataract. Classification, clinic, diagnosis, treatment principles.

32. Congenital cataract. Classification, clinic, diagnosis, treatment principles.

33. Diseases of the eyelids. Classification, clinic, treatment principles, complications, outcomes.

34. Paralytic strabismus. Clinic, diagnosis, treatment principles, outcomes, medical examination.

35 the concomitant strabismus. Classification, clinic, treatment principles, outcomes, medical examination.

36. Etiology and pathogenesis of primary glaucoma. Principles of conservative treatment. Indications for surgical treatment.

37. Secondary glaucoma. Classification, clinic, treatment principles, outcomes, medical examination.

38. Acute attack of glaucoma. Pathogenesis, clinic, diagnosis, first aid, treatment principles, complications, outcomes.

39. Vascular pathology. Classification, clinic, diagnosis, treatment principles, outcomes, medical examination.

40. diseases of the optic nerve.Classification, clinic, diagnosis, treatment principles.

41. Trachoma. Etiology, pathogenesis, clinic, diagnosis, principles of treatment, complications, prevention.

42. Gnobleniya. Diagnosis, treatment, outcomes, prevention.

43. Eye lesions in diabetes. Classification of diabetic angioretinopathy. Diagnosis, treatment methods.

44. Eye lesions in hypertension, atherosclerosis, kidney disease. Diagnosis and treatment methods.

45. Foreign bodies of eyes. Classification, diagnosis, first aid, treatment, complications, outcomes.

46. Foreign bodies of the orbit. Classification, clinic. diagnosis, first aid, treatment, complications, outcomes.

47. Wounds of the eye. Classification, clinic, diagnosis, first aid, the principles of specialized care, complications.

48. Century wounds. Classification, features of the wound process. Methods of primary surgical treatment of eyelid wounds.

49. Penetrating wounds to the sclera. Classification, clinic, diagnosis, first aid, complications, outcomes.

50. Penetrating wounds of the cornea. Classification, diagnosis, clinic, first aid, treatment principles, complications, outcomes.

51. Blunt trauma to the eye. Classification, clinic, diagnosis, first aid, treatment principles, complications, outcomes.

52. Damage to the orbital bone walls. Clinic, diagnosis, treatment principles, complications, outcomes.

53. Burns to the eyes. Classification, clinic, diagnosis, first aid, treatment, complications, outcomes.

54. Phlegmon of the lacrimal SAC. Causes, clinic, principles of treatment, prevention.

55. Phlegmon of the orbit. Causes, clinic, principles of treatment.

56. Sympathetic ophthalmia. The frequency, format and timing of occurrence. Diagnosis, treatment principles, prevention.

57. Anterior uveitis (iridocyclitis). Etiology, pathogenesis, clinic, diagnosis, first aid, principles of treatment, complications, outcomes.

58. Traumatic iridocyclitis. Classification, clinic, treatment, complications.

59. Endophthalmitis. Panophthalmitis. Pathogenesis, clinic, treatment, complications, outcomes.

60. Hemophthalmia. Pathogenesis, clinic, diagnosis, treatment, complications, outcomes.

61. Traumatic lesions of the retina. Classification, clinic, diagnosis, treatment, complications, outcomes.

62. Professional destruction of the organ of vision. Classification, clinic, diagnosis, treatment, complications, outcome.

63. Acute dacryoadenitis. Etiology, clinic, diagnosis, treatment, complications.