Syllabus for the State Examination in Optometry

Section A – Visual Perception and Optics

1. **Optics**: Including geometrical optics and physical optics.
2. **Visual Perception**: Including ocular physiology and neurology, visual optics, visual perception, color vision defects and spatial vision defects, and the normal development of vision.
3. **Current Optical and Optometric Equipment**: The optical principals of instruments intended for examination of the eyes and the visual system, how they work and how they are operated.

Section B – Management of Visual Problems

1. **Refraction**: Including visual optics, ametropic refractive errors, presbyopia, aphakia, aniseikonia, pseudophakia, low vision, pediatric optometry, geriatric optometry and spatial vision.
2. **Binocular Vision**: Including eye movements, ocular neurophysiology and oculomotor neuropathology, sensory defects of binocular vision/strabismus, defects of eye movements, defects of accommodation and accommodative vergence.
3. **Contact Lenses**: Including refractive errors/ametropia, updates in contact lenses including contact lens uses and raw materials, management of refraction with sensory and oculomotor defects as an indication for contact lenses.
4. Law and ethics in optometry in Israel.

Section C – General Health and Ocular Problems

1. **Biology**: Including general anatomy, histology and biochemistry, general physiology and neurophysiology, pharmacology and pathology, microbiology, immunology, epidemiology, nutrition and congenital and hereditary conditions.
2. **Ocular Biology**: Including anatomy, physiology and neurophysiology of the eye, components of the eye, visual pathways, development of the visual pathways, ocular pharmacology.
3. **Ocular Pathology**: Pathology of all components of the eye: the lacrimal system, conjunctiva, cornea, sclera, epi-sclera, uvea, defects of refraction and accommodation, orbit, anterior chamber, **structure of the angle and intra-ocular pressure**. Lens / aphakia / pseudophakia, posterior pole including the ocular fundus and vitreous. Intra-ocular pressure (IOP), diseases of the optic nerve and macula, oculomotor neuropathology.