

Scope of Knowledge for Ophthalmology MedEx

The pre-entrance examination consists of 60 True-False multiple-choice questions. There is **negative marking** within the question and the minimum score for each question is ZERO (0).

The duration of the examination is 2 hours.

Overview

The examination syllabus conforms to the syllabus for basic ophthalmological training, which encompasses common diseases and procedures that trainees would encounter in a general ophthalmology unit of a general hospital.

Competency attainment

The levels of knowledge that a trainee would be expected to demonstrate in this examination are listed below.

Anatomy
1. The cranial cavity
2. Central nervous system
3. Head and neck anatomy
4. Histology
5. Embryology
Physiology
1. Nerve and muscle
2. Autonomic nervous system
3. Blood
4. Respiratory system
5. Cardiovascular system
6. Acid-base balance system/metabolism
7. Renal system
8. Endocrinology
9. Central nervous system and special senses

Pathology

1. Inflammation

2. Disturbances of growth

3. Degenerations

4. Aging

5. Neoplasia

6. Vascular disorders

7. Shock and trauma

Immunology**Microbiology**

1. Principles of infection

2. Culture media

3. Bacteria

4. Viruses

5. HIV and AIDS

6. Fungi

7. Others

Genetics**Molecular and Cell Biology**

1. Cell organelles, receptors and receptor signalling

2. Receptor physiology

3. Extracellular matrix

Pharmacology