

**Second Year B.Sc Optometry Degree Supplementary Examinations
October 2018**

Ocular Anatomy and Ocular Physiology

(2010 scheme)

Time: 3 hrs

Max marks: 80

- Answer all questions
- Write section A and section B in separate answer books (32 Pages).
Do not mix up questions from section A and section B.

Q P Code: 207013 Section A – Ocular Anatomy**Marks: 40****Essay:** (15)

1. Discuss the microscopic structure of retina

Short notes: (2x5=10)

2. Lacrimal apparatus
3. Layers of cornea

Answer briefly: (5x2=10)

4. Name the bones forming the orbit
5. Iris muscles
6. Aqueous outflow system
7. Rods and cones
8. Optic nerve

One word answer: (5x1=5)

9. The eyeball and orbital contents are supplied by ----- artery
10. Trochlear nerve supplies ----- muscle.
11. Sebaceous gland seen in the lid related to tarsal plate is -----
12. Optic nerve is -----mm long.
13. Pars plicata is part of -----

Q P Code: 208013 Section B – Ocular Physiology**Marks: 40****Essay:** (15)

1. Define accommodation. Discuss in details the mechanism of accommodation. Write briefly on accommodation anomalies.

Short notes: (2x5=10)

2. Physiological changes in ageing lens
3. Factors affecting corneal hydration

Answer briefly: (5x2=10)

4. Ocular rigidity
5. Vergence
6. Yoke muscles
7. Functions of bipolar cells in the retina
8. Tonometry

One word answer: (5x1=5)

9. Visual pigment present in cones is -----.
10. Soluble proteins in the lens are called -----
11. ----- divides aqueous chamber into anterior and posterior chamber.
12. ----- is the predominant type of collagen in the corneal stroma.
13. Antibacterial enzyme seen in tear is -----.