

Second Year B.Sc Optometry Degree Supplementary Examinations –
June 2015

OCULAR ANATOMY AND PHYSIOLOGY

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. Describe the microscopic structure of cornea. What are the factors maintaining corneal transparency.

Short notes: (2x5=10)

2. Glands of the conjunctiva
3. Draw the cross section of eyelid and label the parts

Answer briefly: (5x2=10)

4. Parts of crystalline lens
5. Vitreous humour
6. Limbus
7. Apertures of orbit
8. Trochlear nerve

One word answer: (5x1=5)

9. The part of conjunctiva lining the sclera is known as -----conjunctiva.
10. The normal depth of anterior chamber is -----.
11. The extra-ocular muscle responsible for abduction of the eye is -----.
12. The sensory supply of the cornea is -----.
13. The crystalline lens develops from -----.

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

1. Describe the mechanism of aqueous formation. Enumerate the different routes of aqueous outflow.

Short notes: (2x5=10)

2. Grades of binocular single vision
3. Kinetic perimetry

Answer briefly: (5x2=10)

4. Ishihara's test
5. Visual cycle
6. Corneal hydration
7. Ocular rigidity
8. Elimination of tears

One word answer: (5x1=5)

9. The reflex tear secretion is the function of -----glands.
10. The most metabolically active layer of cornea is -----.
11. The photoreceptors responsible for photopic vision are -----.
12. Coloured haloes are seen in -----.
13. The appreciation of two images of a single object is called -----.