

Second Year B.Sc Optometry Degree Supplementary Examinations –
May 2016

OCULAR ANATOMY AND OCULAR 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. Name the extra ocular muscles of eye ball. Explain their attachments, nerve supply and actions

Short notes: (2x5=10)

2. The visual pathway – explain with diagram
3. Lacrimal apparatus

Answer briefly: (5x2=10)

4. Branches & Distribution of Ophthalmic nerve
5. Angle of Anterior Chamber
6. Ciliary body
7. Layers of eye lid
8. Infantile Squint

One word answer: (5x1=5)

9. Styte is the infection of gland of eyelid
10. Main source of Nutrition to cornea is by
11. Lacrimal gland is located in a fossa of bone
12. A lesion of optic chiasma produces
13. Optic canal transmits and

Q P Code: 208013 Section B – Ocular Physiology

Marks: 40

Essay: (15)

1. What is Aqueous humor. Write about its composition, formation, circulation and its functions. How does it help to maintain the intraocular pressure.

Short notes: (2x5=10)

2. Basis of color vision and its anomalies
3. Factors maintaining the transparency of cornea

Answer briefly: (5x2=10)

4. Visual cycle
5. Mechanisms of accommodation
6. Physiological aspects of Primary visual cortex
7. Argyll Robertson Pupil
8. Electroretinogram

One word answer: (5x1=5)

9. Area of retina where visual acuity is maximum is
10. The photoreceptor responsible for scotopic vision is
11. Astigmatism can usually be corrected with
12. The first order neurons in the retina are
13. The human eye has a refractive power of approximately at rest