

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

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. Mention the different coats of eyeball explaining the constituents and functions of each.

Short notes: (2x5=10)

2. Bony walls of orbit
3. Microscopic structure of cornea

Answer briefly: (5x2=10)

4. Ptosis
5. Superior orbital fissure
6. Lacrimal gland
7. Limbus
8. Superior oblique muscle of eye ball

One word answer: (5x1=5)

9. Lateral rectus muscle is supplied by
10. Nasolacrimal duct opens into meatus of nasal cavity
11. Pigment present in iris is
12. Ophthalmic artery is a branch of
13. Visual cortex is present in lobe of brain

Q P Code: 208013 Section B – Ocular Physiology

Marks: 40

Essay: (15)

1. What is accommodation. With the help of a diagram explain the changes during accommodation. Mention about the conditions when there is a defect in this.

Short notes: (2x5=10)

2. Ionic basis of photoreceptor potentials
3. Visual perception and its physiological mechanisms

Answer briefly: (5x2=10)

4. Saccades
5. Electrical potentials in retina
6. Glaucoma
7. Macular sparing
8. Perimetry

One word answer: (5x1=5)

9. By diffusion and active transport from plasma, ciliary body produces -----
10. Area of retina that does not respond to light is-----
11. The G- protein responsible for photo transduction in rods and cones is -----
12. The time- resolving ability of the eye is determined by measuring the -----
13. The abnormalities of color vision are inherited as ----- characteristics