

Reg. No.: .....

Second Year B.Sc Optometry Degree Examinations - October 2012

**OCULAR ANATOMY AND PHYSIOLOGY**

Time: 3 hrs

Max marks: 80

- Answer all questions
- Write section A and section B in separate answer books. 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 structure of crystalline lens. What are the factors maintaining the lens transparency. List the changes in ageing lens.

**Short notes: (2x5=10)**

2. Draw the cross section of eyeball and label the parts
3. Microscopic structure of cornea

**Answer briefly: (5x2=10)**

4. Contents of the orbit
5. Iris
6. Positions of gaze
7. Lacrimal apparatus
8. Ophthalmic artery

**One word answer: (5x1=5)**

9. The part of conjunctiva lining the lids is known as -----conjunctiva.
10. The horizontal diameter of cornea is-----.
11. The retina develops from -----.
12. The strongest attachment of the vitreous is at-----.
13. Levator palpebrae superioris is supplied by ----- nerve.

**Q P Code: 208013 Section B – Ocular Physiology**

**Marks: 40**

**Essay: (15)**

1. Define tonometry. Enumerate the different types of tonometers. List the factors influencing the normal IOP.

**Short notes: (2x5=10)**

2. Laws of ocular motility
3. Visual cycle

**Answer briefly: (5x2=10)**

4. Accommodation
5. Schirmer's test
6. Blood retinal barrier
7. Photoreceptors
8. Define saccades and pursuits

**One word answer: (5x1=5)**

9. Mucin layer of tears is secreted by-----.
10. The stromal imbibition pressure of cornea is-----.
11. The normal range of IOP is-----.
12. The visual pathway ends in the -----cortex .
13. The bactericidal enzyme in the tears is -----.

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