

**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 anatomy of extra ocular muscles with nerve supply, blood supply and actions

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

2. Layers of cornea
3. Anatomy of macula lutea

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

4. Name two ocular structures developing from the surface ectoderm.
5. Bones forming the roof of the orbit.
6. Angle of anterior chamber
7. Name the muscles of Iris , their function and nerve supply
8. Lacrimal glands

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

9. Which layer of the cornea separates the surface epithelium from the stroma.
10. Which structure in the eye is responsible for the secretion of aqueous humour.
11. The inner retinal layers are supplied by which artery.
12. The structure in the anterior chamber which is responsible for drainage of aqueous humour is.....
13. Which structure of the eye separates the anterior segment into anterior chamber and posterior chamber.

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

1. Physiology and theories of color vision

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

2. Intraocular pressure maintenance
3. Dark adaptation

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

4. Rhodopsin
5. Pupillary Reflexes
6. What is the difference between ductions and vergences.
7. Stereopsis
8. Pre corneal tear film

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

9. The most actively metabolising layers of the cornea are epithelium and .....
10. The nearest point at which small objects can be seen clearly is called .....
11. Primary action of the lateral rectus muscle is.....
12. The photoreceptor cells which are primarily concerned with photopic vision are
13. Form sense is measured using .....