

**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. Draw and label a diagram of the section of eye ball. Explain briefly about the segments and chambers of the eye and its contents.

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

2. Micro anatomy and blood supply of retina
3. Illustrate with the help of a diagram- the visual pathway

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

4. Which are the bones forming the medial and lateral walls of the orbit.
5. Name two ocular structures developing from the neural ectoderm
6. Optic chiasma
7. Layers of cornea
8. Origin, insertion, nerve supply and function of superior rectus muscle

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

9. Which extra ocular muscle is supplied by the fourth cranial nerve (trochlear nerve)
10. Which layer of cornea separates the endothelium from the stroma.
11. The Inner most layer of retina is.....
12. The muscular band that serves as the insertion point for most of the extra ocular muscles at the apex of orbit is called .....
13. Which photoreceptor cells are concerned with color vision.

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

**Marks: 40**

**Essay: (15)**

1. What is binocular single vision. Explain the grades and maintenance of BSV .

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

2. Maintenance of corneal transparency
3. Accommodation reflex

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

4. Name two tests for color vision.
5. Draw a diagram to show the components of the precorneal tear film
6. What is Sherrington's law of reciprocal innervation.
7. What is form sense.
8. Horopter

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

9. One example of a supra nuclear eye movement is...
10. The chief source of nutrients for the crystalline Lens is.....
11. Vision in bright light is referred to as .....vision
12. Amblyopia can be treated by .....therapy
13. The condition resulting from loss of accommodation in old age is referred to as