

**DIPLOMA IN OPTOMETRY TECHNOLOGY
FIRST YEAR**

**PAPER I – OCULAR ANATOMY, OCULAR PHYSIOLOGY, OCULAR
PHARMACOLOGY, OCULAR MICROBIOLOGY**

Q.P. Code: 841531

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Neatly draw the structure of eyeball and label the parts. Discuss in detail about anatomy of Outer coat of eyeball.
2. Discuss in detail about visual pathway with suitable diagrams and flowcharts. Add a note on applied anatomy.
3. Discuss in detail about the various methods involved in Sterilization, Disinfection and Antisepsis.

II. Write notes on:

(10 x 5 = 50)

1. Chambers of eye.
2. Enumerate intraocular involuntary muscles of eye, their action, blood supply and nerve supply.
3. Layers of retina.
4. Light Reflex.
5. Define Xerophthalmia. What are all the causes for Xerophthalmia and how will you correct it?
6. What is Cataract? Discuss in detail about the causes of Cataract and methods of correction.
7. Enumerate drugs used in Glaucoma, their mechanism of action and principle of using them.
8. Classify Corticosteroids, their mechanism of action, uses and adverse effects.
9. Classify Aminoglycosides, their mechanism of action, uses and adverse effects.
10. Enumerate the toxins released by Staphylococci and various diseases caused by Staphylococci.

III. Short answers on:

(10 x 2 = 20)

1. Enumerate four refracting media of eyeball through which light enters.
2. Hypermetropia.
3. Stye.
4. Macula Lutea.
5. Function of Rods Cones.
6. Tests for Visual Acuity.
7. Ocusert.
8. Cycloplegics.
9. Interferon.
10. Enumerate four fungi causing systemic diseases.
