

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

(DO 1224)

**DECEMBER 2024
(OCTOBER 2024 EXAM SESSION)**

Sub. Code: 3108

DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION

PAPER I - BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Q.P. Code: 353108

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. a) Anatomy and clinical application of Third, Fourth and Sixth cranial nerves.
b) Anatomy of Superior orbital fissure.
2. a) Anatomy of ciliary body and angle of anterior chamber.
b) Physiology of aqueous humor drainage.

II. Write notes on:

(10 x 7 = 70)

1. Surgical spaces of orbit – Anatomy and Relations.
2. Visual pathway and its blood supply.
3. Disinfection of operation theatre and sterilization of instruments.
4. Surgical anatomy of pars plana and various agents used through intravitreal route.
5. Histology of cornea and factors responsible for corneal transparency.
6. Anatomy and functions of Retinal pigment epithelium.
7. Application of routine and special stains of ocular microbiology.
8. Electrophysiological basis of electroretinography.
9. Topical and systemic Antifungal agents.
10. Visual adaptation.

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(DO 1025]

OCTOBER 2025

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PAPER I - BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Q.P. Code: 353108

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe in detail the layers of the Cornea. Enumerate the factors responsible for maintaining Corneal Transparency.
2. What are the Cardinal Positions of Gaze? Describe the origin, insertion, nerve supply and mechanism of action of Extraocular muscles. Add a note on the applied aspects.

II. Write notes on:

(10 x 7 = 70)

1. Bones forming the Walls of the Orbit.
2. Types of Astigmatism.
3. Dendritic keratitis.
4. Maddox Rod test.
5. KOH mount.
6. Histopathology of Retinoblastoma.
7. Argyll Robertson pupil.
8. Chalazion and its effects.
9. Rosette cataract.
10. Draw a neatly labelled diagram of Cross-section of Upper lid.
