

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

**(DO 0723)**

**JULY 2023**

**Sub. Code: 3108**

**(MAY 2023 EXAM SESSION)**

**DIPLOMA IN OPHTHALMOLOGY (DO) EXAMINATION**

**APPLIED BASIC SCIENCES IN OPHTHALMOLOGY INCLUDING  
MICROBIOLOGY, ANATOMY, PHYSIOLOGY AND  
PATHOLOGY OF THE EYE**

*Q.P. Code: 353108*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the anatomy of Optic nerve and its blood supply.
2. Discuss the structure and functions of pre-corneal tear film. Describe about physiological lacrimal pump.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Describe the anatomy of Eye lid.
2. Describe the theories of Accommodation and its Anomalies.
3. Polymerase Chain Reaction and its uses in Ophthalmology.
4. Botulinum toxin in Ophthalmology.
5. Gram stain.
6. Anti-vascular Endothelial growth factor.
7. What are Macular Function Tests?
8. Sterilization of instruments in Ophthalmology
9. Draw a labelled diagram of Pupillary Reflex pathway. Discuss approach to diagnosis of Anisocoria.
10. Histopathology of Malignant Melanoma.

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