

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

[MS 0723]

**JULY 2023  
(MAY 2023 EXAM SESSION)**

**Sub. Code: 2226**

**M.S. DEGREE EXAMINATION**

**BRANCH III – OPHTHALMOLOGY  
PAPER IV – OPHTHALMOLOGY INCLUDING INVESTIGATIVE  
OPHTHALMOLOGY AND SURGERY AND RECENT ADVANCES**

*Q.P. Code: 222226*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the different types of refractive surgeries. Discuss the merits and demerits of each surgery.
2. Discuss the etiopathogenesis, clinical features, complications and management of Retinopathy of Prematurity.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Ultrasound bio microscopy.
2. Ocular Coherence Tomography-Angiography in macular diseases (OCTA).
3. Neuro protection in Glaucoma.
4. Femtosecond Lasers.
5. Nanotechnology based drug delivery system in ophthalmology.
6. Symblepheron.
7. Stem cells in Ophthalmology.
8. PET scan.
9. Pharmacologic modulations of Glaucoma filtration surgery.
10. Pneumatic Retinopexy.

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