

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

[MS 1022]

OCTOBER 2022

Sub. Code: 2225

M.S. DEGREE EXAMINATION

BRANCH III – OPHTHALMOLOGY

PAPER I – APPLIED BASIC SCIENCES IN OPHTHALMOLOGY

Q.P. Code: 222225

Time : Three Hours

Maximum : 100 Marks

Write Notes on :

I. ANATOMY: (4 x 5 = 20)

1. Development of Eye.
2. Ophthalmic Artery.
3. Superior Orbital Fissure.
4. Anatomy of Lacrimal gland.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Abnormal Retinal Correspondence.
2. Rods and Cones.
3. Electroretinogram.
4. Macular Function Tests.

III. BIO-CHEMISTRY: (3 x 5 = 15)

1. Biochemical composition of tears.
2. Metabolism of Lens.
3. Homocystinuria.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Ketoconazole.
2. Routes of Administration of Drugs in Eye.
3. Aflibercept.

V. MICROBIOLOGY: (3 x 5 = 15)

1. Herpes Zoster Virus.
2. Laboratory Diagnosis of HIV virus.
3. Onchocerciasis.

VI. PATHOLOGY: (3 x 5 = 15)

1. Pathogenesis of Metabolic Cataract.
2. Pathology of Lacrimal gland carcinoma.
3. Histopathology of Retinoblastoma.
