

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

[MS 0522]

MAY 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. Anatomy of Trigeminal Nerve.
2. Circle of Willis.
3. Orbicularis oculi.
4. Craniosynostosis.

II. PHYSIOLOGY:

(4 x 5 = 20)

1. Corneal Transparency.
2. Tests for Binocular Single Vision.
3. Vitreous Degeneration.
4. Pupil and its reactions.

III. BIO-CHEMISTRY:

(3 x 5 = 15)

1. Biochemical composition of aqueous humour and aqueous drainage.
2. Aerobic glucose Metabolism.
3. Metabolic defect in Albinism.

IV. PHARMACOLOGY:

(3 x 5 = 15)

1. Intravitreal Antibiotics.
2. Parasympathomimetic drugs used in ophthalmology.
3. Topical Anesthetics.

V. MICROBIOLOGY:

(3 x 5 = 15)

1. Microorganisms causing Postoperative Endophthalmitis.
2. Mycobacterium Lepae.
3. Culture Media for Corneal scrapings.

VI. PATHOLOGY:

(3 x 5 = 15)

1. Dyes used in Ophthalmology.
2. Pathogenesis of Diabetic Retinopathy.
3. Lattice Corneal dystrophy.
