

**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. Blood Retinal Barrier.
2. Levator palpebrae superioris.
3. Limbal stem cells.
4. Optic nerve head.

**II. PHYSIOLOGY: (4 x 5 = 20)**

1. Tonometry.
2. Convergence insufficiency.
3. Colour vision tests.
4. Abnormal pupillary reflex.

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

1. Metabolism of vitreous.
2. Wald's visual cycle.
3. Anaerobic glucose metabolism.

**IV. PHARMACOLOGY: (3 x 5 = 15)**

1. Cycloplegics.
2. Neuro protectors.
3. Ganciclovir.

**V. MICROBIOLOGY: (3 x 5 = 15)**

1. Stains in fungal corneal ulcer.
2. Acanthamoeba.
3. Antigen – antibody reaction.

**VI. PATHOLOGY: (3 x 5 = 15)**

1. Mooren's ulcer.
2. Malignant melanoma.
3. Premalignant lesions of lid.

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