

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

[AHS 0321]

MARCH 2021

Sub. Code: 1531

(AUGUST 2020 EXAM SESSION)

DIPLOMA IN OPTOMETRY TECHNOLOGY

FIRST YEAR (Regulation 2014-2015 & 2018-2019)

**PAPER I – OCULAR ANATOMY, OCULAR PHYSIOLOGY, OCULAR
PHARMACOLOGY, OCULAR MICROBIOLOGY**

Q.P. Code : 841531

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the dynamics of aqueous humour secretion, circulation and drainage.
2. Describe the structure of the visual pathway.
3. Describe the theories of colour vision and test for colour vision.

II. Write notes on:

(10 x 5 = 50)

1. Autoclave.
2. Function of tears.
3. Disinfection.
4. Light reflex.
5. Enumerate drugs used in Glaucoma, their mechanism of action and principles of using them.
6. Define Gram's stain. Discuss in detail about principle and procedure of Gram's Stain.
7. Corneal Anatomy.
8. What is cataract? Discuss in detail about the causes of cataract and methods of correction.
9. Steroid in ocular medicines.
10. Visually evoked response.

III. Short answers on:

(10 x 2 = 20)

1. Beta blockers.
2. Superior Oblique muscle.
3. Grades of BSV.
4. Gonococcus.
5. Bones in the orbit.
6. Chemical sterilization.
7. Test for visual acuity.
8. Enumerate 3 fungi causing systemic diseases.
9. Accommodation.
10. Myopia.
