

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2732

B.OPTOM
FIRST YEAR (Regulation 2018-2019)
PAPER II - OCULAR ANATOMY AND OCULAR PHYSIOLOGY
Q.P NO. 802732

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 X 10 = 30)

1. Describe the orbit under following headings.
 - a) Bones forming the walls of orbit.
 - b) Contents of orbit.
2. Explain in detail about Visual Pathway.
3. Describe retina under the following headings.
 - a) Layers of retina.
 - b) Add a note on photoreceptors.

II. Write notes on:

(8 X 5 = 40)

1. Orbicularis oculi.
2. Lens protein.
3. Structure of cornea.
4. Oculomotor nerve.
5. Anterior segment of eye.
6. Trichromatic theory.
7. Electrooculogram.
8. Presbyopia.

III. Short answers on:

(10 X 3 = 30)

1. Structures passing through superior orbital fissure.
2. Central retinal artery.
3. Name the cranial nerves supplying the extraocular muscles.
4. Pars plana.
5. Dark adaptation time.
6. Name the glucose metabolism pathways in lens.
7. Grades of binocular single vision.
8. Phototransduction.
9. Name the branches of Ophthalmic division of trigeminal nerve.
10. Rhodopsin bleaching in visual cycle.
