

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

[AHS 0424]

APRIL 2024

Sub. Code: 2742

B.OPTOM
SECOND YEAR - (Regulation 2018-2019 onwards)
PAPER II – VISUAL OPTICS
Q.P. Code: 802742

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. What is Astigmatism? Write in detail about Astigmatism.
2. Define Prisms. What is Prentice's rule? Write about Base-apex rotation, Decentration of Prisms and uses of Prisms.
3. Write about Corneal Curvature and Refractive anomalies associated with Corneal Curvature and its treatment.

II. Write notes on:

(8 x 5 = 40)

1. What is Vertex distance? Write about Spectacle Magnification and Relative Spectacle Magnification.
2. What is Myopia? Write in detail about Pathological Myopia.
3. Retinoscopy – Principle and Types.
4. What is Accommodation and how will you manage Accommodative errors?
5. Growth of Eye in relation to Refractive Errors.
6. Types of Hypermetropia and their correction.
7. Anisometropia.
8. Cross Cylinder.

III. Short answers on:

(10 x 3 = 30)

1. Transpose: -3.00 D Sph/ +1.00 D Cyl X 60.
2. Parts of Spectacle trial frame.
3. Prism dioptre.
4. What are the materials used for Polaroid Lens?
5. Maddox rod.
6. What are Conjugate points?
7. Effect of lenses in front of Eye.
8. Neutralization of Retinoscopic reflex.
9. Define Amblyopia.
10. Angle Alpha and Kappa.
