

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

[AHS 0423]

APRIL 2023

Sub. Code: 1536

DIPLOMA IN OPTOMETRY TECHNOLOGY
SECOND YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER I – REFRACTION TECHNIQUES, CONTACT LENSES,
LOW VISION AIDS AND OPTICAL DISPENSING

Q. P. Code: 841536

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain about Soft Contact Lens Fitting and its Evaluation.
2. Explain Vertometer in detail with its Optics.
3. Write about Various Progressive Designs and explain its Markings with a diagram.

II. Write notes on:

(10×5=50)

1. Boxing system.
2. Mention few special techniques of Retinoscopy in an Astigmatic Eye.
3. Procedure of doing a Jackson Cross Cylinder.
4. Cycloplegic refraction.
5. Types of Bifocal lens.
6. Fluorescein fitting in a Rigid Gas Permeable Lens.
7. Binocular balancing in refraction.
8. Non optical devices in low vision aids
9. Different types of Lens material and its features.
10. What is Hyperopia? Write its treatment options.

III. Short answers on:

(10×2=20)

1. Photo Chromatic lens.
2. What is continuous wear contact lens?
3. Oxygen Permeability.
4. Mention the different types of near vision notation.
5. Name the two ways of Disinfecting Contact Lenses.
6. Explain the LARS rule with an example.
7. Different types of Bridges.
8. Therapeutic uses of Contact Lens.
9. Explain Kestenbaum rule.
10. What are High Index Lenses?
