

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

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 1536

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

**DIPLOMA IN OPTOMETRY TECHNOLOGY
SECOND YEAR (Regulations from 2014-2015 & 2018-2019)
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. Discuss in detail about keratometry and its procedure.
2. Draw a neat labelled diagram of frames and explain its part
3. Define low vision according to WHO. Write about the different types of optical and non – optical devices.

II. Write notes on: (10×5=50)

1. Explain about progressive lenses design.
2. Datum system
3. Procedure of doing a Jackson Cross cylinder.
4. Types of intraocular lenses and its features.
5. Difference between Rigid gas permeable lens and soft contact lens.
6. Chromatic aberration.
7. Write short note on, how you would rehabilitate a patient without any low vision aids.
8. Write in brief on astigmatism and its types.
9. Different types of lens material and its features.
10. Types of bifocal lens.

III. Short answers on: (10×2=20)

1. Define oxygen permeability.
2. Pantoscopic tilt.
3. In a myope of -2.00D, what will be his far point?
4. Mention the different types of near vision notation.
5. Name the two ways of disinfecting contact lenses.
6. What is cycloplegic refraction?
7. Write about spherocylindrical lens.
8. Therapeutic uses of contact lens.
9. Explain Duochrome test
10. Schirmer's test.
