

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

[AHS 0424]

APRIL 2024

Sub. Code: 2751

B.OPTOM

THIRD YEAR (Regulation 2018-2019 onwards)

PAPER I – OPTOMETRIC OPTICS II AND DISPENSING OPTICS

Q.P. Code: 802751

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the various types of Frame material available in India.
2. Bifocal lenses types, segment shapes and Optical characteristics.
3. Describe the steps of manual method of measuring monocular and Binocular Inter Pupillary Distance (IPD).

II. Write notes on:

(8 x 5 = 40)

1. Ghost images.
2. Distometer.
3. Types of progressive addition lenses.
4. Image jump in bifocals.
5. Frame accessories.
6. Safety lenses.
7. Polarizing filters.
8. Various coatings in Ophthalmic lenses.

III. Short answers on:

(10 x 3 = 30)

1. Patient selection in progressive lens.
2. Brown tint Lens – What are its uses?
3. Advantages of photochromic lenses.
4. Disadvantages of bifocal lens.
5. Lenticular lens - Indications
6. Name the instrument used to measure surface power of the lens. Name any two uses.
7. Is it important to measure monocular PD? What is its significance?
8. Name three special purpose frames.
9. Why is Abbe value important while dispensing spectacles?
10. Define Glare. What are the different types Glare?
