

[LJ 0816]

AUGUST 2016

Sub.Code :1503

**DIPLOMA IN OPTOMETRY TECHNOLOGY
FIRST YEAR**

PAPER III – PHYSICAL, GEOMETRIC AND VISUAL OPTICS

Q.P. Code: 841503

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. What is hypermetropia? Give its causes, symptoms and treatment.
2. Explain “with” and “against” motions in retinoscopy.
3. Write in detail about eye donation.

II. Write notes on:

(10 x 5 = 50)

1. Explain Strums conoid with neat diagram.
2. Write notes on electromagnetic spectrum.
3. What are the methods of identification of lenses?
4. Explain Duochrome test.
5. Write notes on the importance of conducting eye camps.
6. Mention the treatment of Amblyopia.
7. Explain real and virtual images.
8. Describe the path of a ray of light through a prism.
9. Explain the optics of myopia.
10. How will you calculate spherical equivalent?

III. Short answers on:

(10 x 2 = 20)

1. What is reflection?
2. State Snell’s law of refraction.
3. Define power of prism.
4. What is phosphorescence?
5. Give the vision charts for adult.
6. What is a spherocylindrical lens?
7. Give two properties of light.
8. What is angular magnification?
9. Mention the uses of prisms.
10. What is polarization of light?
