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. Retinoscopic techniques.
2. Formation images in a convex lens.
3. Symptoms, causes and treatments of myopia.

II. Write notes on: **(10 x 5 = 50)**

1. Use of prisms in correcting visions.
2. Formation of image in a concave lens.
3. Astigmatism and its treatments.
4. Cycloplegic refraction.
5. Sturm's conoid.
6. Aphakia and pseudophakia.
7. Presbyopia and its correction.
8. Symptoms and treatments of aniseikonia.
9. Amblyopia and its correction.
10. Importance of conducting eye camps.

III. Short answers on: **(10 x 2 = 20)**

1. Conditions for interference of light.
2. Polarization of light.
3. Laws of refraction.
4. Power of a lens.
5. Spherocylindrical lens.
6. Uses of crossed cylinder.
7. Differences between real and virtual images.
8. Fluorescence and phosphorescence.
9. Power of a prism.
10. Eye donation.

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