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   Elabrate on **3 x 10 = 30**

1. Define Hypermetropia. Give its components, clinical features and management
2. Define Anisometropia.   Give the etiology, clinical types, diagnosis and management
3. Drugs used in refraction and interpretation of retinoscopic values

II   Write notes on **10 x 5 = 50**

1. Convex lenses
2. Pseudophakia
3. Conducting a screening camp for cataract
4. Duochrome test
5. Pathological Myopia
6. Write down the glass prescription for the following retinoscopy values

RE | + 3.50 LE | + 2.00

+2.50 +1.00

   Age – 30 years ; Working distance 1 metre ; Drug used – Cyclopentolate 1 %
7. Laws of reflection and refraction
8. Uses of Prisms in ophthalmology
9. Jackson's cross cylinder
10. Transpose and give the type of refractive error
      a) $+ 0.75$ Dsph $+ 1.00$ Dcyl x 75°
      b) $- 1.00$ Dsph $+ 1.50$ Dcyl x 180°

III   Write short answer on **10 x 2 = 20**

1.   Give two properties of Light
2. Polarization
3. Properties of LASER
4. Illumination
5. Linear magnification
6. Neutralisation
7. Unit of a Prism
8. Types of lenses
9. With the rule and against the rule astigmatism
10. Define Amblyopia

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