

DIPLOMA IN OPTOMETRY TECHNOLOGY
SECOND YEAR
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. Define Low Vision according to WHO? Write about the different types of optical and non Optical devices.
2. What is cycloplegic refraction? Mention few drugs used for cycloplegic refraction its action and duration. Give few important indications of doing a cycloplegic refraction.
3. Elaborate on different types of lens material with its physical properties and advantage.

II. Write notes on:

(10 x 5 = 50)

1. Write a short note on chromatic aberration and its application.
2. Short note on spherocylindrical lenses.
3. Types of Intraocular lenses and its features.
4. Mention the different types of field defects seen in glaucoma.
5. Indications and contraindications of contact lenses.
6. Fitting of a toric contact lenses.
7. Explain the procedure of taking monocular Interpupillary distance.
8. Write a short note on photochromatic lenses.
9. Electrophysical devices in low vision.
10. Explain in brief the optics of contact lens.

III. Short answers on:

(10 x 2 = 20)

1. Write the prescription in plus cylinder form -1.00Dsph /-0.50Dcylx90.
2. Difference between cylinder and spherocylinder.
3. Name four special visual acuity test for children.
4. A patient with his RE reads three letters in 0.9 line of a Log MAR chart. What is his visual acuity?
5. Define Oxygen permeability.
6. What is the effect of accommodation on a myopic patient who changes from spectacle to contact lens.
7. A low vision patient with distance visual acuity of 6/60. What will be the add required?
8. Characteristics of retinoscopic reflex.
9. Name the different types of bridges.
10. Define pantoscopic tilt.
