

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. Explain the method of doing a complete subjective refraction.
2. Explain the different types of optical device used in low vision Aids with its features.
3. Draw a neat labelled diagram of frames and explain its part.

II. Write notes on:

(10 x 5 = 50)

1. Define spherical aberration and give the factors how the Human eye overcomes it?
2. Mention few special techniques of retinoscopy in an astigmatic eye.
3. Procedure on doing a Jackson Cross cylinder.
4. An Emmetrope with an amplitude of accommodation of 2D requires to work at a distance of 20cm. What is the required addition required by the patient.
5. Difference between Rigid gas permeable lens and soft contact lens.
6. Fluorescein fitting in an Rigid gas permeable lens.
7. Write a short note on how you would rehabilitate a patient without any low vision aids?
8. Non optical devices in low vision aids
9. Different types of lens material and its features.
10. Differences between hard and a soft design progressive lenses.

III. Short answers on:

(10 x 2 = 20)

1. Explain Snellen's fraction.
2. Give the spherical equivalent for the prescription +2.00DSph /-1.00Dcylx90.
3. A myope of -2.00D what will be his far point?
4. Mention the different types of near vision notation.
5. Name the two ways of disinfecting contact lenses.
6. Explain the LARS rule with an example.
7. Define oxygen transmissibility.
8. Uses of contact lenses as a therapeutic.
9. Explain kestenbaun rule.
10. What is image jump in bifocal lens?
