

Second Year B.Sc Optometry Degree Supplementary Examinations
February 2023

Visual Optics

(2014 scheme)

Time: 2 hrs

Max marks: 40

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay (10)

1. Write the principle and steps involved in subjective refraction.

Short notes (3x5=15)

2. Differentiate between static and dynamic retinoscopy.
3. Describe the optics of cornea.
4. Explain the risk factors of presbyopia.

Answer briefly (5x2=10)

5. Define relative spectacle magnification.
6. Define pseudomyopia.
7. What is straddling technique.
8. Define depth of focus.
9. What is the principle of duochrome.

Give precise answer (5x1=5)

10. is used to measure the principle meridians of the eye.
11. Maximum plus or minimum minus spherical lenses provides the patient with visual acuity.
12. is defined as the refractive condition in which the variation of power exists in the different meridians of the eye.
13. The most common technique performed to refine the astigmatism is
14. is required to ensure that accommodation is balanced between the two eyes.
