

**Second Year B.Sc Optometry Degree Examinations October 2017**

**Visual Optics**

**(2014 scheme)**

Time: 2 hrs

Max marks: 40

- Answer all questions
- Draw diagrams wherever necessary

**Essay** (10)

1. Define accommodation. Enumerate the ocular changes during accommodation. What do you mean about amplitude of accommodation. Describe in details about the methods by which you can measure the amplitude of accommodation clinically.

**Short notes** (3x5=15)

2. Etiology of hyper metropia
3. Ophthalmoscopic findings seen in pathological myopia
4. Jackson cross cylinder

**Answer briefly** (5x2=10)

5. Define spectacle magnification and relative spectacle magnification.
6. What do you mean about Vergence of light and conjugate points.
7. What are the characteristics of the movement of reflex during retinoscopy
8. What is fogging. What might occur if the patient is not fogged prior to beginning the subjective refraction.
9. Sign convention used in geometrical optics

**Fill in the blanks** (5x1=5)

10. 1 mm increase in radius of curvature of cornea leads to hyper metropia of.....
11. The retinoscopy done with the patient's eyes fixed at a near distance is known as .....
12. .... is a condition of refraction wherein a point focus of light cannot be formed upon the retina.
13. .... is a congenital condition of the eye in which axial myopia is seen
14. Pseudo myopia is a condition seen in.....

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