

**Q.P. Code: 215013**

**Reg. No.:.....**

**Second Year B.Sc Optometry Degree Supplementary Examinations  
June 2022**

**Clinical Examination of Visual System and Ophthalmic Instruments**

**(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. Explain visual acuity and its components. Differentiate between Snellen visual acuity chart from log MAR visual acuity chart. (1+4+5)

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

2. Explain the principle of applanation tonometer. Write its advantage over Schiotz tonometer.
3. Enlist the various illumination techniques in slit lamp and explain the specular reflection & sclerotic scatter.
4. Explain the Glaucoma hemifield test in detail.

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

5. What is lens guage and what measurement is taken with lens guage.
6. What is Scheiner's principle.
7. Differentiate plane mirror retinoscopy from concave mirror retinoscopy and write its indications.
8. Name few color vision charts designed based on pseudoisochromatic principle.
9. K1: 45.50D @10; K2: 49.00D@100. Comment on keratometry readings.

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

10. In indirect Ophthalmoscopy examining eye is made .....(myopic/hypermetropic)
11. The ..... instrument measures the axial length of the eye.
12. The test used to examine the quality of tear film is .....
13. Exophthalmometer measures.....
14. In slit lamp, the fundus examination is performed with the help of .....

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