

**Q.P. Code: 217013**

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

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

**Optometric 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 on the lens quality with respect to faults in the material and on the surface of a lens.

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

2. Explain on D and executive bifocal.
3. Safety lenses.
4. Define real field of view and apparent field of view.

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

5. What are Hard Multicoatings and Antireflection Coatings.
6. List any two indications and contraindications for PAL use.
7. What is a transverse movement test. Explain the procedure
8. Explain any two axis notation for cylindrical lenses.
9. Explain any two properties of crossed cylinders with examples.

**Give precise answers (5x1=5)**

10. Transpose the prescription into one of its alternate forms:  
+4.25DS/ +5.50DC x 140
11. Use of recumbent prism.
12. What are Ghost images.
13. What are the two factors on which the size of the image produced by an Iseikonic lens depends.
14. What is the decentration required to produce 6Δ Base Down (BD) on the right eye by a -7.00DS lens

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