Q.P. Code: 217013 **Reg. No.:……**

Second Year B.Sc Optometry Degree Supplementary Examinations May 2023

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. With a neat diagram. Explain progressive addition lenses. What are the advantages of progressive lenses over bifocal lenses

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

2. Define Bifocal lenses and its type
3. Toric Transpostion

   +5.00/+3.00 X 120; Base -3.00D

   -6.50/-2.50 X 20; Base +2.00D
4. Explain in detail the process of Surfacing

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

5. Simple Transposition:

   -1.00/-1.00 X 180

   +2.00/+0.50 X 45
6. Define Spherical Equivalent and solve the following

   +3.50/-1.50 X 55
7. Photochromatic lenses
8. Define Monocular Prismatic effect
9. Define Sagitta with the diagram

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

10. Prentice's Rule
11. Define curvature
12. Define effective power
13. Principle of Anti Reflection coating
14. Types of Toric surfaces

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