

Q.P. Code: 312013

Reg. No.:.....

**Third Year B.Sc Optometry Degree Regular/Supplementary Examinations  
January 2022**

**Dispensing optics, Mechanical optics, Contact lens and Low vision aids**

**(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 in details about spectacle lens manufacturing.

**Short notes**

**(3x5=15)**

2. Describe on various special filters used in ophthalmic lens dispensing.
3. Elaborate on ANSI standards.
4. Explain contact lens fitting in astigmatism.

**Answer briefly**

**(5x2=10)**

5. Discuss on Abbe value.
6. What are crutch glasses.
7. Explain the categories of low vision.
8. List ocular disorders leading to loss of peripheral field.
9. Differentiate between soft and hard design of PAL

**One word answer**

**(5x1= 5)**

10. Refractive index of Butyl Styrene is \_\_\_\_\_
11. Contact lens magnification is greater than spectacle magnification in cases of \_\_\_\_\_
12. \_\_\_\_\_ B size frames are not suitable for high hypermetropic prescriptions.
13. \_\_\_\_\_ scotoma is seen in high plus lenses.
14. \_\_\_\_\_ determines the depth of the reading portion.

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