

QP Code: 227013

Reg. No:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations  
May 2024  
Optometric Optics  
(2016 Scheme)**

Time: 2 hours

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. What are progressive addition lenses. Write in detail about the manufacturing, designs and markings in a progressive addition lenses.

**Short Notes**

**(3x5=15)**

2. Explain the advantage of Anti-reflection coating. How is it done. Who will benefit with this coating
3. Write in detail about properties of Trivex lens. Whom do you think may benefit with this lens material
4. What are the properties of a Titanium frame. What are the advantages and disadvantages of it. How do identify this frame material

**Answer Briefly**

**(5x2=10)**

5. What do you understand by Edging and Glazing
6. Transpose this into all possible forms : +2.25DS / -1.25DC x 145
7. What do you understand by Dispersion
8. What is coma aberration
9. Explain how polarized lenses work

**One Word/ Brief Answers**

**(5x1=5)**

10. What is Virtual image
11. What is Base and apex of a Prism
12. What is Hydrophobic coating for
13. What is Photochromatic lens
14. Define Refractive index

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