

**Second Year B.Sc Optometry Degree Examinations – November 2015****Visual Optics****Time : 3 hrs****Max marks : 80**

- **Answer all questions**
- **Draw diagram wherever necessary**

**Essays****(2x15=30)**

1. Explain streak retinoscopy under following headings-  
•Procedure •Stages of retinoscopy •Straddling
2. Enumerate the ocular changes during accommodation. Explain in detail about Donder's table. How can you measure amplitude of accommodation of a subject clinically

**Short notes****(5x5=25)**

3. J.C.C
4. Sign convention
5. Treatment for aphakia
6. Spectacle and relative spectacle magnification
7. Presbyopia

**Answer briefly****(10x2 = 20)**

8. Mention one example of with the rule and mixed astigmatism
9. Draw Sturm's conoid
10. Duochrome test
11. What are the characteristics of the movement of reflex during retinoscopy
12. Comment about optical condition in hypermetropia
13. Define the following terms-  
•Vertex distance •Depth of focus
14. Enumerate the techniques to refine the axis of an cylinder
15. What do you mean by spherical equivalent. Calculate the spherical equivalent of  
-4.00DS/-0.50DCX45°
16. Congenital myopia
17. Fundamental rules for prescribing glass for hyperopic subjects

**One word answer****(5x1 = 5)**

18. Maddox rod is used for.....
19. Far point of hyperopic eye is .....
20. Cylinder .....remain unchanged after transposition
21. Range of accommodation is defined as.....
22. ....is used as a mydriatic drug with no cycloplegic action