

Final year B.Sc. (Nursing - Basic) Degree Examination – April 2014

Time: Three Hours

Max. Marks: 100 Marks

**Visual Optics**  
**Q.P. Code : 1632**

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

**LONG ESSAYS (Answer any Four)**

**4 x 10 = 40 Marks**

1. What is convergence? Discuss the different types, measurement & its associated anomalies.
2. What is Myopia? Discuss it on the basis of Optical principle, Ophthalmoscopic findings and treatment options.
3. What is Retinoscopy? Explain the different techniques. What is Radical retinoscopy & Mohindra Near Retinoscopy?
4. What is Dynamic Retinoscopy? Explain any 2 methods of dynamic retinoscopy. Explain Radical & Near retinoscopy.
5. What is Subjective refraction? Explain in detail about the different ways of Subjective refraction

**SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

6. Components of trial set
7. Binocular balancing & fogging technique
8. Explain 2 uses of Red Green filter
9. Explain the relation between accommodation & convergence
10. Range & Amplitude of Accommodation. With example
11. What are the cardinal points. Define conjugacy & vergence
12. Types of Astigmatism with example
13. Management of Aphakia
14. Retinoscopy in Myopia

**SHORT ANSWERS**

**10 x 2 = 20 Marks**

15. Disadvantages of Aphakic spectacles
16. Convert the following in feet system :  
6/36    b) 6/12
17. Define with the rule astigmatism. Give one example
18. Mention two causes of Aniseikonia
19. Define manifest & latent hyperopia
20. Transpose the following in minus cylinder form:  
+1.00/+3.00\*65  
+6.00/+0.50\*180
21. Define physical & physiological accommodation
22. Side effects of Atropine
23. Define AC/A ratio
24. Define contrast sensitivity. Name one test to measure contrast sensitivity

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