

Final year B.Sc. (Nursing - Basic) Degree Examination – September 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 accommodation? What are the changes which occurs during accommodation? Discuss the different anomalies of accommodation.
2. What is Astigmatism? Discuss its Optical Principle, Aetiology & the different types.
3. What is subjective refraction? Explain the fogging technique, JCC, & W4DT.
4. What is Myopia? Discuss it on the basis of Optical principle, Ophthalmoscopic findings and treatment options.
5. What is Retinoscopy? Explain the different techniques. What is Radical retinoscopy & Mohindra Near Retinoscopy?

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

6. Types of Astigmatism with example
7. Management of Aphakia
8. Retinoscopy in Myopia
9. What are the cardinal points? Define conjugacy & vergence
10. Explain the optics of these different ocular structures: cornea & crystalline lens
11. Components of trial set
12. Binocular balancing & fogging technique
13. Explain 2 uses of Red Green filter
14. What are the cardinal points? Define conjugacy & vergence

SHORT ANSWERS

10 x 2 = 20 Marks

15. Define manifest & latent hyperopia
16. Mention any 2 optical changes during accommodation
17. Why there is with movement while doing retinoscopy in hyperopic patient?
18. Define Depth of focus
19. Spectacle verses contact lens
20. Mention any 2 optical changes during accommodation.
21. Why there is with movement while doing retinoscopy in hyperopic patient?
22. Define Depth of focus
23. What is sign convention?
24. How will you measure NPC?
