Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Optometry Degree Examination – OCT-2019

Time: Three Hours   **Max. Marks: 80 Marks**

Visual Optics
(Revised Scheme – 3)
Q.P. Code: 3112

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

LONG ESSAYS (Answer Any Three)   **3 x 10 = 30 Marks**

1. Define visual acuity. What is the difference between log MAR chart & Bailey Lovie chart? Explain step by step how you are going to measure Visual acuity using log MAR chart.
2. Define accommodation. What are the changes which occurs during accommodation? What is physical and physiological accommodation? Explain Range and amplitude of accommodation with an example.
3. What is Dynamic Retinoscopy? Explain any 2 methods of dynamic retinoscopy. Explain Radical & Near retinoscopy.
4. Explain Hyperopia on the basis of different types, clinical features & its treatment modalities

SHORT ESSAYS (Answer Any Six)   **6 x 5 = 30 Marks**

5. Ophthalmoscopic findings in myopia
6. Types of accommodation in hypermetropia
7. What is "Jack in the box" phenomenon? Define Night Myopia
8. Cycloplegic refraction
9. Optical condition in Astigmatism
10. Optical condition in Aphakia
11. Define the following terms : Presbyopia, Anisometropia, Aniseikonia, Pseudophakia, emmetropia

SHORT ANSWERS   **10 x 2 = 20 Marks**

12. Transpose the following in minus cylinder form:

    +1.00/+3.00*65

    +6.00/+0.50*180
13. Define physical & physiological accommodation
14. Side effects of Atropine
15. Define AC/A ratio
16. What is static retinoscopy?
17. Mention two causes of Aniseikonia
18. Disadvantages of Aphakic spectacles
19. Convert the following in feet system : a)6/36   b) 6/12
20. What is SRK II formula?
21. Name all the anomalies of accommodation

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