

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Optometry Degree Examination - 21-Nov-2024

Time: Three Hours

Max. Marks: 80

Visual Optics (RS-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. Describe the various refractive errors. Mention their management options
2. Write in details about different types of retinoscopy and their procedures
3. Define Sturm's conoid and write about the classification and treatment of astigmatism with examples
4. Calculate the AC/A ratio for each of the following
 - a) Orthophoria at 6 m and orthophoria at 40 cm
 - b) 4 Δ exophoria at 6 m and 12 Δ exophoria at 40 cm
 - c) 2 Δ esophoria at 6m and 8 Δ esophoria at 40 cm

SHORT ESSAYS (Answer Any Six)

6 x 5 = 30 Marks

5. Write any 5 points differentiating axial and refractive ametropia
6. Write in short about the reduced eye with diagram
7. Describe various methods used to measure convergence
8. Write a short note on contrast sensitivity charts
9. What is the interval of clear vision for an uncorrected 5.00 D myope with 10D of accommodative amplitude?
10. What is meant by fogging? What might occur if the patient is not fogged before beginning the subjective refraction?
11. Write in detail about the drugs used in Cycloplegic refraction

SHORT ANSWERS

10 x 2 = 20 Marks

12. Define spectacle magnification and relative spectacle magnification
13. Describe the trial case and write down different accessories present in a trial case
14. Define pseudomyopia
15. What are Purkinje images
16. Write any two instruments by which corneal curvature is measured
17. If an object is 33 cm from a + 10.00 lens, where is the image (what distance from the lens)?
18. What is radical retinoscopy?
19. Which combination makes up + 1.00 Jackson cross - cylinder?
20. How many minutes does the "E" on the 20/20 line of the Snellen eye chart subtend?
21. What is the range of keratometer?
