Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Optometry Degree Examination – 22-May-2023

Time: Three Hours

Max. Marks: 100 Marks

CEVS AND OPTOMETRIC INSTRUMENTS (RS-4)
Q.P. CODE: 3348

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

LONG ESSAYS (Second Question Choice)　　　　　　　2 x 10 = 20 Marks

1. Outline the principles and details of various types of auto refractometers

2. Explain the principle, optics and procedure of a manual Bausch and Lomb Keratometer
    Or
    Enumerate different types of tonometers. Describe the techniques, advantages and disadvantages of any two methods

SHORT ESSAYS (Question No 5 & 10 choice)　　　　　10 x 5 = 50 Marks

3. Explain the instrumentation and optics of streak retinoscope

4. What is Perimetry? Explain its different types

5. Explain A –Scan ultrasonography
    Or
    Explain the assessment of cornea done with slit lamp mention the color coding used for mentioning the corneal abnormalities

6. Explain the parts of trial frame. What is trial case and mention its contents inside it?

7. Describe construction of Snellen visual acuity chart

8. Describe about pupil evaluation

9. Explain Scheiner's disc principle and its clinical use

10. What are the side effects of Fundus Fluorescence Angiography?
    Or
    Explain how ocular rigidity affects Schiotz tonometry

11. Source of error in lensometry

12. What are the different types of maps available in topography?

SHORT ANSWER　　　　　　　　　　　　　　　　10 x 3 = 30 Marks

13. Use of placido disc

14. Two type of colour arrangement test

15. Optical principles of Gonioscopy

16. How to calculate the near add and intermediate add power based on the age? Describe with an example

17. What are the advantages and disadvantages of non-contact tonometer?

18. What is the formula for calculating the true intra ocular pressure?

19. Explain categories of visual acuity measurement

20. What is ROPLAS?

21. What are the uses of A scan?

22.　　a) $K_1 = 42.50 \times 180$
　　　　b) $K_2 = 43.5 \times 90$
    Mention the type of astigmatism and calculate the amount of astigmatism

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