

QP Code: 226013

Reg. No:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
October 2021**

**Visual Optics
(2016 Scheme)**

Time: 2 hours

Max. Marks: 40

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay

(10)

1. Explain in detail about the procedure and recording of following subjective refraction techniques-
 - Duochrome test
 - Refinement of cylindrical axis and power by J.C.C

Short Notes:

(3x5=15)

2. Optics of streak retinoscopy in myopia with diagram.
3. Aetiology and treatment of pathological myopia
4. Reduced eye

Answer briefly

(5x2=10)

5. A 65 years old patient whom you find has had a hyperopic shift in their prescription since the last visit. What are the two possible etiologies
6. Explain the newer correction methods available for progressive myopia
7. Explain scissor's reflex. Which clinical conditions it is seen
8. Calculate the spherical equivalent of +4.00 DS/-3.00 DCX50
9. Which type of patients give poor results in Duochrome test and always prefer red color

One Word Answer

(5x1=5)

10. _____ is a congenital condition of the eye in which axial myopia is seen.
11. Unit of physiological accommodation is _____
12. In unocular aphakia, there is a difference of _____ % between the two images of both eyes
13. Dioptric difference between far point of accommodation and near point of accommodation gives _____.
14. In Gullstrand's schematic eye, primary nodal point lies _____ mm from the corneal apex
