QP Code: 226013   Reg. No:…………………………

Second Year B.Sc Optometry Degree Regular/Supplementary Examinations February 2022

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. Write in detail about Gullstrand-2 simplified schematic eye and reduced eye. Why it is important to know about schematic and reduced eye

Short Notes: **(3x5=15)**

2. Presbyopia
3. Sign convention
4. Importance of Keratometry readings in clinical practice

Answer briefly   **(5x2=10)**

5. Write type of astigmatism in each of the following sphero-cylindrical combinations-

    - +3.00DS/-2.50DCX45
    - +1.00DS/-2.25 DCX 110

6. Explain MAR and log MAR value of 6/6
7. Explain the factors affecting pupillary size
8. Differentiate between facultative and absolute hypermetropia
9. Explain non-surgical methods of myopia control

One Word Answer   **(5x1=5)**

10. Donder's reduced eye is an ideal spherical surface having radius of curvature of _____mm.
11. _____ is a condition of refraction wherein a point focus of light cannot be formed upon the retina.
12. The linear distance traversed by the point of conjugacy in moving from far point to near point of accommodation is known as _____.
13. In the higher degrees of myopia, whole of the posterior pole of the eye herniated backwards resulting in a condition called _____
    14. +1.75DSph/-1.25Dcyl x 170 is an example for ....type of astigmatism

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