

Second Year B.Sc Optometry Degree Supplementary Examinations – May 2016

Visual Optics

Time : 3 hrs

Max marks : 80

- **Answer all questions**
- **Draw diagram wherever necessary**

Essays (2x15=30)

1. Explain in detail about the etiology, clinical features and treatment of hypermetropia
2. What are the procedures you would follow while correcting a patient of 22 years old male having an objective refraction value of -Working distance 67 cm
OD: +2.00Dsph
OS: - 2.00DSph/-1.75Dcylx80

Short notes (5x5=25)

3. Pathological myopia
4. Ocular refraction and spectacle refraction
5. Regular astigmatism
6. Streak retinoscopy
7. Procedure of bausch and lomb keratometry

Answer briefly (10x2 = 20)

8. Explain briefly about the rules of transposition by giving one example
9. Enumerate the techniques available to refine cylindrical axis and power during subjective refraction.
10. Given a prescription of -2.00DS/-1.00DCx90 Degree. Draw the optical cross and find the spherical equivalent
11. What are the different surgical options available for treatment of myopia
12. Explain briefly about problems faced by aphakic patient corrected by spectacle
13. Define the following terms-
 - Amplitude of accommodation •Range of accommodation
14. What do you mean about vergence of light and conjugate points
15. Explain briefly about Donder's table
16. List four indications of cycloplegic refraction
17. Stenopaeic slit and its uses

One word answer (5x1 = 5)

- 18.....type of astigmatism is present physiologically due to constant pressure of eye lid.
19. Iridodonesis is seen in.....subjects
- 20.+4.00DS/-6.00DCX100 Degree is a type of.....astigmatism
- 21.....is an instrument which measures the amount of Aniseikonia
22. The power of reduced eye is about.....