

Second Year B.Sc Optometry Degree Supplementary Examinations
October 2018

Visual Optics
(2010 scheme)

Time: 3 hrs

Max marks: 80

- Answer all questions
- Draw diagram wherever necessary

Essays

(2x15=30)

1. Explain retinoscopy under following:
 - Procedure
 - Interpretation of result
 - Problems
2. Explain the mechanism of accommodation. Describe in detail about measurement of amplitude of accommodation by using minus lens and push to blur method.

Short notes

(5x5=25)

3. Astigmatic fan test
4. Sign convention
5. Treatment for presbyopia
6. Refinement of cylindrical axis and power by J.C.C
7. Binocular balancing methods.

Answer briefly

(10x2=20)

8. Give one example of against the rule astigmatism and compound myopic astigmatism
9. Spectacle and relative spectacle magnification
10. What is pseudo myopia. Which clinical conditions it is seen.
11. Comment about optical condition in hypermetropia
12. What is meant by fogging. What might occur if the patient is not fogged prior to beginning the subjective refraction.
13. Define the following terms:
 - spherical equivalent
 - depth of field
14. LASIK
15. Differentiate between the terms – latent hypermetropia and manifest hypermetropia
16. Congenital myopia
17. What are the symptoms of presbyopia.

One word answer

(5x1=5)

18. is the instrument used for measuring the thickness of cornea.
19. Maximum retinal image size difference that can be tolerated between the two eyes is%.
20. In pathological myopia, myopic crescent is usually seen in the margin of optic disc.
21. Amplitude of accommodation is defined as
22. is strongest cycloplegic available.