

Third Year B.Sc Optometry Degree Examinations - October 2014

Dispensing Optics, Mechanical Optics, Contact Lens and Low Vision Aids

Time : 3 hrs

Max marks : 100

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

Essays

(2x20=40)

1. Describe history taking of low vision patient in detail. Discuss low vision evaluation in terms of refraction, distance & near vision and visual field (10+10=20)
2. Explain the different fitting philosophies in contact lens practice. Add a note on contact lens fitting in astigmatism (10+10=20)

Short notes

(5x5=25)

3. Frame measurement and frame selection for elderly
4. Spectacle magnifier
5. Contraindications for contact lens fitting
6. Bifocal spectacle lens fitting
7. Spectacle dispensing in myopia

Answer briefly

(10x3=30)

8. Dimensions of cornea
9. Glazing of spectacle lens
10. Absorptive lenses
11. Total diameter verification for RGP lenses
12. Instructional sequences for telescope use in low vision care
13. Diffuse and retro-illumination technique using slit lamp
14. Frame manipulation
15. Faults in spectacle lens fitting
16. Hydrogen peroxide disinfection systems in contact lens care
17. Considerations while edging of lenses for plastic frames

One word answer

(5x1= 5)

18. ----- is the least normal time of tear break up
19. defect in the spectacle lens material is commonly found during the inspection with shadowing technique
20. In albinism, reduced visual acuity is due to
21. Contact lens related microbial keratitis (MK) is most commonly associated with
22. Cellulose nitrate is not used as a frame material now, because of its nature