

**B.Sc. Allied Health Sciences Third Year (Semester-V)**

**July/August– 2019 Examination**

**Time : 2.30 Hrs.**

**B.Sc. Ophthalmic Technology (OPH)**

**[Max. Marks : 80]**

**Paper-II**

**Clinical and Advanced Optics**

**Q.P Code : AHS - 139**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define Myopia, what are types of Myopia and Describe methods of correction of Myopia.
2. Explain the various stages of Retinoscopy and the difficulties encountered during Retinoscopy.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Presbyopia
4. Signs of Aphakia
5. Calculation of Intra Ocular Lens Power
6. Strum's Conoid
7. Compound Hypermetropia
8. Anomalies of Accommodation
9. Duochrome Test
10. Auto Refractive meter

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Define Anisometropia
12. Uses of Pin Hole
13. Astigmatism Fan.
14. Optical components of Eye
15. What is a total Hypermetropia.
16. Uses of Cross Cylinder.
17. Fogging.
18. Angle kappa.
19. Spectacle Magnification
20. RAF Rule
21. Hirschberg Test.
22. Name Extra ocular Muscles and its nerve supply.

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**Paper-III**

**Contact Lens and Eye Bank**

**Q.P Code : AHS - 140**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define eye banking. Write on functions of eye bank, eye bank personal.
2. Write on contact lens parts, curves and nomenclature. Write on types of contact lens, indication and contraindication for contact lens use.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Slit-lamp biomicroscopy.
4. Placido's disc.
5. Factors responsible for maintenance of corneal transparency.
6. Corneal endothelial changes in contact lens wearers.
7. Lathe cutting of contact lens.
8. Clinical uses of keratometry.
9. Contact lens fitting in keratoconus.
10. Tonography and its application.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Corneal warping
12. Piggyback lens.
13. Push-up Test
14. Static and Dynamic contact lens fitting.
15. Types of Deposits on contact lenses.
16. Toric contact lens
17. Newer methods in storage of donor cornea.
18. Principle of keratometry.
19. Sources of error in keratometry.
20. Silicon hydrogel lenses.
21. Enzyme cleaning for contact lens.
22. Advantages and disadvantages of contact lens over spectacles.