

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**(A DEEMED TO BE UNIVERSITY)**

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

**Feb/March 2017 Examination**

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

**Time : 2.30 Hrs.**

**Paper - I**

**[Max. Marks : 80]**

**Clinical & Advanced Orthotics**

**Q.P Code : AHS-138**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Describe in detail pediatric refraction.
2. Describe in detail binocular single vision.

**SHORT ESSAY (Answer any Six)**

**6X 5 = 30 Marks**

3. Maddox Rod.
4. What is accommodation and its disorder.
5. What is the importance of occlusion.
6. Presbyopia.
7. Paralytic squint management.
8. Anatomy of ocular muscles.
9. Define amblyopia and its types.
10. Define squint and classification.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Importance of binocular single vision.
12. Head posture and its importance.
13. Ocular motility –name
14. Types of nystagmus.
15. Measurement of Ac/A ration.
16. Synoptophore.
17. Test for ARC.
18. Pleoptics and its importance.
19. Classify nystagmus.
20. Treatment for strabismus.
21. Three differences between paralytic and non paralytic squint.
22. Test for to detect ARC.

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**Paper - II**

**[Max. Marks : 80]**

**Clinical & 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 aphakia. Write on causes, optics, clinical feature of aphakia. Add a note on treatment of aphakia.
2. Define keratoconus. Write the Etio-pathogenesis, clinical features, morphology, classification and treatment of keratoconus.

**SHORT ESSAY (Answer any Six)**

**6X 5 = 30 Marks**

3. AC/A Ratio.
4. Pathological myopia.
5. Histology of cornea.
6. Fitting of contact lenses in children.
7. Subjective refraction.
8. Various options of correcting astigmatism.
9. Pre-requisites for retinoscopy.
10. History of contact lens.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Contra-indication for contact lens use.
12. Total internal reflection.
13. Treatment of presbyopia.
14. Source of nutrients to cornea.
15. Cornea plana.
16. Corneal endothelial cell density.
17. Define emmetropia.
18. Components of hypermetropia.
19. What is wet ratinoscopy and dry retinoscopy.
20. What is the end point of neutralisation while using a streak retinoscopy.
21. How to identify cylindrical lens.
22. Advantages and disadvantages of hard contact lens.

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**Paper - III**

**[Max. Marks : 80]**

**Contact Lens & 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. Describe the contact lens protocol fitting? Write about the trial fitting procedure and final lens order.
2. How does the cornea receive oxygen during contact lens wear? What are the causes for corneal oedema in contact lens use? How do you manage it.

**SHORT ESSAY (Answer any Six)**

**6X 5 = 30 Marks**

3. Explain in detail contact lens material.
4. Explain fluorescein pattern in contact lens fitting and clinical significance.
5. Hard lens problems.
6. Role of contact lens in drug delivery.
7. Oxygen permeability and oxygen transmissibility.
8. Procedure of enucleation of donor eye.
9. Enumerate complications of contact lens.
10. Documentation of registration of donor.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Enumerate four methods to preserve the eyes.
12. Contact lens options in presbyopia.
13. Push up test.
14. What is enzyme present in cleaning of contact lens.
15. RGP contact lens.
16. Therapeutic contact lens.
17. Contraindication for collection of donors eye.
18. Tear lens system.
19. HEMA.
20. Name the contact lens used in keratoconus.
21. Toric contact lens.
22. Contact lens in aphakia.

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