



## **SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

### **B.Sc. Allied Health Sciences Third Year Semester-VI**

#### **September 2025 Examination**

#### **Bachelor of Optometry**

**Time: 2 hrs 30 mins**

**[Max. Marks: 80]**

#### **Optometric Optics and Dispensing Optics**

**Q.P Code : K6300**

*Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.*

#### **LONG ESSAY**

**2 X 10 = 20 Marks**

1. Describe the various types Aberrations in a lens and ways to reduce them.
2. Discuss about Spectacle frame material with their advantages and disadvantages.

#### **SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Discuss about Datum system.
4. What are the types of lenses according to shape
5. Discuss in brief about Strum's conoid with diagram
6. Describe the parts of Frame.
7. Difference between Glass and Plastic Ophthalmic Lens Material.
8. Write a note on Fresnel Prism.

#### **SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Toughened Lenses.
10. Mention the raw materials used in manufacturing of glass.
11. Frame selection in Progressive lens.
12. Principle of prism and its uses.
13. Benefits of antireflection coating.
14. Describe reflection with bifocals.
15. Markings seen on progressive lenses with diagram
16. Discuss in brief about Polaroid lenses
17. What are the various lens materials?
18. Give Refractive index for crown glass, polycarbonate and CR39.

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**Time: 2hrs 30 mins**

**[Max. Marks: 80]**

**Contact Lens and Occupational Optometry**

**Q.P Code : K6310**

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

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Classify Contact lens and explain its properties.
2. Describe about Fitting of RGP Contact Lens.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Describe cosmetic soft lenses.
4. Disadvantages and Advantages of RGP contact lenses.
5. Describe visual display unit
6. Write a note on History of Contact Lens.
7. Discuss about Optics of Contact Lens.
8. Write about Manufacturing of Contact Lens.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Define Focons and filcons.
10. Elaborate Contact lens in Aphakia.
11. What are the indications for Scleral contact lenses?
12. Name Corneal layers
13. Mention the advantages of contact lens over spectacles
14. Mention the Contraindications of Contact Lens.
15. Mention the effect of contact lens on Corneal Nutrition.
16. Mention the Contact lens Advances in near future.
17. Lens edge Flare.
18. Describe TBUT test.

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### **Systemic Diseases, Management of OT**

**Q.P Code : K6320**

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

*Draw neat labeled diagrams wherever necessary.*

#### **LONG ESSAY**

**2 X 10 = 20 Marks**

1. Describe etiopathogenesis, & clinical signs & symptoms of Thyroid eye disease.
2. Describe the sterilization technique used in OT.

#### **SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Common Antiseptics used in OT for Hand scrubbing.
4. Describe the etiology, complication & management of Leprosy.
5. Write about Vitamin deficiency.
6. Discuss sterilization of OPD equipment's.
7. Write a note on Helminthiasis.
8. Discuss Fumigation.

#### **SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. Asepsis.
10. Rapid sterilizer.
11. List the instruments used in cataract surgery.
12. Define Ocular Tuberculosis & its types.
13. Describe hyper thyroidism.
14. Autoclaving.
15. Define Blood pressure.
16. Write a note on Immunology.
17. Write are the different types of malaria parasites.
18. Pathology of systemic hypertension.

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