

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

**(A DEEMED TO BE UNIVERSITY)**

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

**February 2019 Examination**

**B.Sc. Ophthalmic Technology**

**Time : 2.30 Hrs.**

**[ Max. Marks : 80]**

**SUBJECT : CLINICAL AND ADVANCED ORTHOPTICS**

**Q.P Code : J5290**

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

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Explain pediatric visual acuity assessment.
2. Discuss clinical evaluation of concomitant squint.

**SHORT ESSAY (Answer any six questions)**

**6 x 5 = 30 Marks**

3. Yoke muscles.
4. Types of amblyopia.
5. Occlusion therapy.
6. Anomalies of binocular single vision.
7. What are the types of diplopia.
8. Write a note on Synaptophore.
9. Hess screen and its interpretation.
10. Write a note on estimation of angle of deviation.

**SHORT ANSWERS (Answer any ten questions)**

**10 x 3 = 30 Marks**

11. Importance of binocular single vision.
12. Name the test used for testing visual acuity in preschool children.
13. Maddox rod.
14. Examples of acquired nystagmus.
15. Name the disorder of accommodation.
16. Write the types of occlusion.
17. Clinical features of presbyopia.
18. Treatment for paralytic squint.
19. Name the test used for evaluation of squint.
20. Supranuclear eye movement systems.
21. List the actions of extra-ocular muscles.
22. Sixth nerve palsy.

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**[ Max. Marks : 80]**

**SUBJECT : CLINICAL AND ADVANCED OPTICS**

**Q.P Code : J5300**

*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 clinical uses of the following  
Perimetry  
Synaptophore  
A. scan  
B. scan  
Fundus camera
2. Describe the clinical uses of tonometer. Explain the types and the procedure of schiotz tonometry.

**SHORT ESSAY (Answer any six questions)**

**10 x 5 = 50 Marks**

3. Optics of Indirect ophthalmoscopy.
4. Optics of movements of reflex in myopia.
5. What are the causes of paralysis of accommodation.
6. Difference between spherical and chromatic aberration.
7. Write a note on Streak retinoscopy.
8. Optical correction of presbyopia and explain basic principle for presbyopic correction.
9. Explain the Near point, Far point, Range and amplitude of convergence.
10. Write the treatment of Keratoconus.

**SHORT ANSWERS (Answer any ten questions)**

**10 x 3 = 30 Marks**

11. Pathological myopia.
12. RAF Rule.
13. Clinical features of diminished accommodation.
14. Placido's disc.
15. Types of convergence.
16. Name the methods of measurement of AC/A Ratio.
17. End point of retinoscopy.
18. Applanation tonometry.
19. Optical correction of Hypermetropia.
20. Parts of Slit-lamp.
21. Scissoring shadows.
22. Modern refractometer.

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**[ Max. Marks : 80]**

**SUBJECT : CONTACT LENS AND EYE BANK**

**Q.P Code : J5310**

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

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**2 x 10 = 20 Marks**

1. Describe rigid gas permeable fitting procedure step by step with the help of diagram.
2. Compare different types of contact lenses in terms of material, advantages and disadvantages.

**SHORT ESSAY (Answer any six questions)**

**6 x 5 =30 Marks**

3. Contact lens fitting in astigmatism.
4. Keratometric method of fitting of RGP lenses.
5. Classification of contact lenses.
6. Initial patient workup before contact lens fitting.
7. Advantages and disadvantages of contact lens.
8. Write an essay on cosmetic contact lenses.
9. Explain contact lens fitting in keratoconus.
10. Slit-lamp biomicroscopy in fitting of contact lens.

**SHORT ANSWERS (Answer any ten questions)**

**10 x 3 = 30 Marks**

11. Enumerate four methods to preserve the eyes.
12. Contact lens options in presbyopia.
13. Pushup test.
14. What are the enzyme present in cleaning solution of contact lens.
15. RGP contact lens.
16. Therapeutic contact lens .
17. Legal aspects of eye donation.
18. Tear lens system.
19. HEMA(explain).
20. Name the contact lens used in keratoconus.
21. Toric contact lens.
22. Contact lens in aphakia.

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