

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

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

April 2016 Examination

B.Sc. Ophthalmic Technology (OPH)

Time : 2.30 Hrs.

Paper - I

[Max. Marks : 80]

Clinical and 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. Evaluation of a case of paralytic squint.
2. What is AV phenomenon. Mention the types assessment and correction protocol.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Sherrington's law of reciprocal innervation.
4. Actions of extra-ocular muscles.
5. Abnormal retinal correspondence (ARC).
6. Ac/A ratio.
7. Nerve supply of extra ocular muscles.
8. Vergences.
9. Amblyopia and its importance.
10. Maddox wing test.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Crossed diplopia.
12. Enumerate causes of uniocular diplopia
13. A-V Exotropia.
14. Pzeoptics.
15. Examples of acquired nystagmus.
16. Alternate cover test.
17. Write about simplified schedule of occlusion therapy depending on the age.
18. Uses of Maddox rod.
19. Head posture.
20. Enumerate disorders of accomodation.
21. Application of hess screen.
22. Examples of congenital nystagmus.

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Paper - II

[Max. Marks : 80]

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 and classify hypermetropia. Describe its causes, signs, symptoms and write the management.
2. Write in detail about the drugs used in refraction and the procedure of cycloplegic retinoscopy.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Cross cylinder.
4. Signs of Pseudophakia.
5. Types of management of keratoconus.
6. Duochrome test.
7. Optic aberration of human Eye.
8. AC/A Ratio.
9. Function of Synoptophore.
10. Management of astigmatism.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Anisekonia.
12. Pseudo myopia.
13. Hirschberg's Reflex.
14. Irregular astigmatism.
15. Post Mydriatic test.
16. Dynamic retinoscopy.
17. Cover and uncover Test.
18. Push-up test.
19. After image.
20. Maddox wing.
21. Name cycloplegic agents used for refraction.
22. Define Presbyopia.

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Paper - III

[Max. Marks : 80]

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. Write an essay on contact lens materials and optics of contact lens.
2. Write in detail on astigmatism correction options.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Write an essay on contact lens fitting in keratoconus.
4. Write an essay on cosmetic contact lenses.
5. What are indications and contraindications of contact lenses.
6. Explain corneal anatomy.
7. Write about history of contact lens.
8. What are effects of RGP contact lens parameter changes on lens fitting.
9. Slit lamp biomicroscopy.
10. Write a note on follow- up post contact lens fitting examination.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Soft contact lens design.
12. Write a note on placido's disc.
13. Fitting of cl in astigmatism (sph RGP).
14. CL fitting in aphakia.
15. Toric CL.
16. Fitting spherical RGP contact lenses.
17. Write a note on tonography.
18. Fitting CL in children.
19. CL fitting in Pseudophakia.
20. Corneal physiology.
21. Keratometry.
22. RGP CL design.