

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

September / October-2018 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. Define convergence and its components. Explain various methods of its measurement.
2. Write the theories of binocular vision. Define, classification and management of amblyopia.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Define crossed and uncrossed diplopia with diagram.
4. Classification of exodeviation.
5. Define harmonious and unharmonious anomalies of retinal correspondence.
6. Hess screen and its interpretation.
7. BSV grades.
8. Eccentric fixation.
9. Prisms in oculomotor disorders.
10. Strabismus-definition and classification.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. AC / A ratio.
12. Causes of paralytic squint.
13. Near vision charts.
14. A V Syndromes.
15. Latent squint.
16. Accommodation esotropia.
17. Hirschberg test.
18. Worth 4 Dot test.
19. Cover Uncover test.
20. Herring's law.
21. Test for color vision.
22. Define yolk muscle and explain.

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Time : 2.30 Hrs.

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. Describe the principle of Retinoscopy and add a note on types of refractive errors.
2. Define Aphakia, what are the merits and de-merits of aphakic correction with spectacles

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. Pathological myopia.
4. Presbyopia.
5. Keratoconus.
6. AC/A ratio.
7. Classification of Astigmatism and its management.
8. Cross cylinder.
9. Strum's conoid.
10. Post operative refractive errors.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. What is NPA.
12. What are various methods of correction of Aphakia.
13. Various methods of correction of Myopia..
14. Name cycloplegic drugs used in retinoscopy.
15. Mention three conditions where retinoscopy is difficult.
16. Name the power used to design cross cylinder.
17. Define Emmetropia and Ametropia.
18. Name four types of hypermetropia.
19. What is pseudophakia and mention types of pseudophakia.
20. Name the instrument used to assess refraction.
21. Write a note on Accommodation.
22. Mention three fundus changes seen in Myopia.

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B.Sc. Allied Health Sciences Third Year (Semester-V)
September/October-2018 Examination
B.Sc. Ophthalmic Technology (OPH)

Time : 2.30 Hrs.

Paper - III
Contact lens and eye Bank
Q.P Code : AHS-140

[Max. Marks : 80]

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

LONG ESSAY

2 X 10 = 20 Marks

1. Write in detail initial patient workup and selecting lens from the trial set in fitting procedure for rigid contact lens.
2. Write in detail preservation of donors cornea.

SHORT ESSAY (Answer any Six)

6X 5 = 30 Marks

3. History of contact lens.
4. Wettability of contact lens material.
5. Properties of ideal material for contact lens.
6. Oxygen transmissibility of contact lens.
7. Hydrogel lens material.
8. Latest techniques for preservation of donor cornea.
9. Limitation of Keratometry.
10. Indication of cosmetic soft lenses.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Discolouration of lens.
12. Storage of lens.
13. Disadvantages of P.M.M.A hard contact lens.
14. Legal aspect of eye banking.
15. Management of contact lens induced giant papillary conjunctivites.
16. Difficulty in removing R. G. P lens.
17. Aftercare and guidelines for using A therapeutic contact lens.
18. Functions of an eye bank.
19. Eye collection center.
20. Facts about eye donation.
21. Interpreting of Keratometry in Keratoconus patient.
22. Advantages of automated Keratometer.

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