

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

**(A DEEMED TO BE UNIVERSITY)**

**B.Sc. Allied Health Sciences Second Year (Semester-IV)**

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

**July 2019 Examination**

**Time : 2.30 Hrs.**

**[Max. Marks : 80]**

**PAPER –I**

**Ocular Pathology, Ocular Pharmacy and Pharmacology**

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

*Draw neat labelled diagrams wherever necessary.*

*(Use separate answer booklet for Section A & B)*

**Section – A**

**Ocular Pathology (40 Marks)**

**Q.P Code : AHS-130**

*(Use separate answer booklet for Section A & B)*

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. Define Granuloma. Discuss the evolution, morphology and fate of tubercle.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

2. Trachoma.
3. Acute retinal necrosis.
4. Chronic non-granulomatous inflammation of orbit.
5. Histology of retinoblastoma.

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

6. Causes of panophthalmitis.
7. Causes of corneal ulcer.
8. Risk factors for cataract.
9. Examples of common malignant tumours of orbit.
10. Examples of stromal dystrophies of cornea.
11. Tests for proteinuria.

**Section – B**

**Ocular Pharmacy and Pharmacology (40 Marks)**

**Q.P Code: AHS-131**

*(Use separate answer booklets for section –B)*

**LONG ESSAY**

**1 X 10 = 10 Marks**

1. Classify anti-glaucoma drugs. Describe the Mechanism of action and adverse effects of Prostaglandins.

**SHORT ESSAY (Answer any three)**

**3 X 5 = 15 Marks**

2. Ocular lubricants.
3. Mydriatic drugs.
4. Explain different periocular routes of drug administration with examples.
5. Contact lens solution.

**SHORT ANSWERS (Answer any five)**

**5 X 3 = 15 Marks**

6. Enlist three chelating agents.
7. Mention three anti-viral drugs.
8. Mention three adverse effects of gentamicin.
9. Dexamethasone eye drops.
10. Enlist three local anesthetic drugs.
11. Mention three ophthalmic preservatives used in topical ophthalmic medications.

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**Paper-II**

**Refraction Investigative Ophthalmology**

**Q.P Code : AHS - 132**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. Describe clinical features and management of Myopia.
2. Write an essay on paediatric visual acuity assessment.
3. Describe the aetiology, clinical features and management of Keratoconus.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

4. Presbyopia.
5. Subjective refraction.
6. Types of occlusion and its uses.
7. Acl A ratio
8. Cross cylinder
9. Describe the principle of retinoscopy with a neat diagram.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

10. Correction of Aphakia.
11. Nystagmus three types.
12. Convergence insufficiency
13. NRA
14. Maddyrod uses.
15. Pinhole test
16. Three types of amblyopia.
17. Three steps in accommodation.
18. Worth's four dot test.
19. Name four extra ocular muscles.

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**[Max. Marks : 80]**

**Paper-III**

**Ophthalmic Instruments and Appliances**

**Q.P Code : AHS - 133**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. Describe the theories of Colour Vision.
2. Describe the optics of Slit Lamp and its uses.
3. Compare and Contrast Direct and Indirect Ophthalmoscopy.

**SHORT ESSAY**

**6 X 5 = 30 Marks**

4. Tonometry
5. Autorefractometer
6. Keratometry
7. Contrast Sensitivity
8. Placido's disc
9. Fundus camera

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

10. Exophthalmometer
11. Corneal Examination
12. Lensometer
13. Glare
14. Photo-Slit Lamp.
15. Uses of Autorefractokeratometer.
16. Types of Perimetry
17. Pachymetry
18. Principle of Specular Microscope
19. Advantages of Non-Contact Tonometer

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