

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

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

October-2018 Examination

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

Time : 2.30 Hrs.

**Paper - I**

[Max. Marks : 80]

**Community Ophthalmology**

**Q.P Code : AHS-141**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Discuss the aims and objectives of National programme for control of blindness and its organisation.
2. Discuss the magnitude and causes of blindness in India.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Vision 2020.
4. Organisation of eye camps.
5. Screening (Reach-in) eye camps.
6. Rehabilitation of blind.
7. Strategies for control of corneal blindness.
8. Categories of visual impairment by WHO.
9. Composition of District Blindness control society.
10. Strategies for trachoma blindness.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Primary eye care.
12. Functions of eye bank.
13. Eye care infrastructure development.
14. Strategies to reduce the burden of cataract.
15. Types of eye camps.
16. Eye collection centers.
17. Types of blindness.
18. School eye screening programme.
19. Screening for diabetic retinopathy.
20. Measures to control Vitamin-A deficiency.
21. Eye bank personnel.
22. Eye health education.

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**Paper - II**

[Max. Marks : 80]

**Investigations in clinical ophthalmology**

Q.P Code : AHS-142

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

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Expand LASER. Mention the properties of laser and discuss the different mechanisms of laser.
2. Discuss the preoperative preparation of patient for cataract surgery. How is the IOL power calculated.

**SHORT ESSAY (Answer any Six)**

**6X 5 = 30 Marks**

3. What is gonioscopy? What are the indications for performing gonioscopy.
4. Discuss the optics of slit lamp.
5. Discuss the different types of colour vision tests.
6. Draw the optics of fundus camera.
7. How is syringing done? Discuss the inferences.
8. Describe the technique of performing fundus fluorescein angiography.
9. Visual field defects in glaucoma.
10. Procedure of Nd: YAG posterior capsulotomy.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Mention different types of illumination in slit lamp.
12. Principle of ultrasonography and types of ocular ultrasound.
13. Optical principle of gonioscopy and types of goniolescopes.
14. Types of perimetry.
15. What is contrast sensitivity and how do you test it?
16. What is dark adaptation and how is it assessed?
17. Importance of anterior segment photography.
18. Lenses used in examination of fundus by slit lamp.
19. Farnsworth munsell 100 hue test.
20. Jones dye tests.
21. Cobalt blue filter in slit lamp.
22. Non-contact tonometers.

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**Paper - III**

**[Max. Marks : 80]**

**Management of OT**

**Q.P Code : AHS-143**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Discuss different methods of sterilization of ophthalmic instruments.
2. Define retinal detachment. Give its types and symptoms.

**SHORT ESSAY (Answer any Six)**

**6X 5 = 30 Marks**

3. OT asepsis.
4. Define conjunctivitis and give its symptoms.
5. Define infective keratitis and give its symptoms.
6. Maintenance of ophthalmic instruments.
7. Pre-operative work-up for cataract surgery.
8. Clinical features and complications of Hordeolum externum.
9. Define glaucoma and give its types.
10. Anesthetic agents used in ophthalmology.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Pterygium.
12. Corneal ectasia.
13. Anterior blepharitis.
14. Probe test.
15. Hot air oven.
16. Rapid steriliser.
17. Leucocoria.
18. Causes of night blindness..
19. Chalazion.
20. Descemetocele.
21. Soft exudates.
22. Hard exudates.

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