



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

Master of Optometry First Year (Semester-I)

April 2025 Examination

Time: 3 Hrs.

[Max. Marks: 100]

Applied Optometry Optics

Q.P Code: MA1010

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 20 = 40 Marks

1. Enumerate the various components of the eye optical system
2.
 - a) What are the different designs of bifocal spectacle lens
 - b) Give advantages and disadvantages of each type
 - c) What is the best design to minimize these pit falls

SHORT ESSAY

6X 10 = 60 Marks

3. What is Sturm's conoid? Explain its clinical importance with the help of diagrams
4. What is polarization? What are the ways to achieve it and discuss about its applied aspects
5. Uses of prisms in ophthalmology. What are Fresnel prism and mention important application of these prisms
6. Describe principles, designs and uses of telescopes
7. What are the properties of ideal lens material? explain various types of plastic lenses
8. Define scattering of light with neat labelled diagram and explain its applied aspects

* * *



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

Master of Optometry First Year (Semester-I)

April 2025 Examination

Time: 3 Hrs.

[Max. Marks: 100]

Epidemiology and Community Ophthalmology

Q.P Code: MA1020

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 20 = 40 Marks

1. Describe the proposed structure and various activities for Vision 2020 under NPCBVI? Add a note on newer initiatives taken under this Programme.
2. Define Epidemiology. Classify Epidemiological studies. Describe steps of Conducting Randomized Control Trial with example.

SHORT ESSAY

6X 10 = 60 Marks

3. What is Association? Discuss different types of Associations in causal studies. Add a note on Confounding Factor with Example.
4. What are the Tools of Measurements in Epidemiology? What are the differences between Case Control and Cohort Studies?
5. Define Bias? What are the various types of Biases encountered in Case Control Study? Enumerate the Steps Involved in the Investigation of an Epidemic.
6. Describe the Epidemiological Determinants for Blindness in India? What is Avoidable & Curable Blindness? Enlist the causes for the avoidable blindness.
7. What is an Eye Bank? What are its functions? List the Major Obstacles for Eye Donation in India? List Six Contraindications for Eye Donation?
8. Describe the WHO Clinical Grading of Vitamin A Deficiency Manifestations in Eye. What are causes for blindness in Children in India? Add a note on Vitamin A Prophylaxis Programme

* * *



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

Master of Optometry (Semester-I) April 2025 Examination

Time: 3 Hrs.

[Max. Marks: 100]

Advanced Ophthalmic Diagnostic Procedure & Instrumentation
Q.P Code: MA1030

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

LONG ESSAY

2 X 20 = 40 Marks

1. Discuss the principle & functions of Autorefractometer.
2. Write in detail about Indirect ophthalmoscope.

SHORT ESSAY

6X 10 = 60 Marks

3. Describe about EOG.
4. Phoropter.
5. Name the 2 theories of colour vision. Explain each with necessary diagrams.
6. Write a note on Fundus Fluorescein Angiography.
7. Write about Syringing & Lacrimal function tests.
8. Describe about Cryo technique.

*** * ***