



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

Master of Optometry (Semester-I)
April 2024 Examination

Time : 3 Hrs.

[Max. Marks :100]

Applied Optometry Optics
Q.P Code :M1710

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

LONG ESSAY

2 X 20 = 40 Marks

1. 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
2. Describe in brief various aberrations of the optical system of eye. What are spherical aberrations? What are various corrective mechanism built in eye to overcome these aberration?

SHORT ESSAY

6X 10 = 60 Marks

3. Describe different types of lenticular lenses and write in brief about aspheric lenses
4. Define Gazing ? describe in brief about Laying off, Lens cutting , Lens edging, Springing in and Rimless fitting
5. What is Sturm's conoid? Explain its clinical importance with the help of diagrams
6. What are the properties of ideal lens material ? explain various types of plastic lenses
7. Define interference? What are the types and its clinical applications
8. Schematic eye with neat labelled diagram

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Epidemiology and Community Ophthalmology
Q.P Code : M1720

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Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 20 = 40 Marks

1. What are the aims and objectives of NPCB? Enumerate the diseases covered under NPCB. Describe the structure and activities carried out under vision 2020?
2. Define Epidemiology. Classify Various Epidemiological Study Designs. Describe steps of conducting a Case Control Study with an example.

SHORT ESSAY

6X 10 = 60 Marks

3. Describe the steps involved in investigation of an Epidemic? What are the differences between Case control study and Cohort study?
4. What is Elimination and Eradication? Give examples. Describe the Duties and Responsibilities of a Community optometrist.
5. Discuss the methodology for Vision Screening in School Eye Screening Programme? What is Trachoma? Enumerate the various grades of Trachoma as per WHO
6. Enumerate the vaccines given in National Immunization Schedule for children? Describe the components of Cold Chain?
7. Describe the Composition of DBCS and its Functions in Control of Blindness.
8. Describe the WHO grading of the Clinical Features of Vitamin A deficiency, prophylaxis and management in detail.

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Time : 3 Hrs.

[Max. Marks :100]

Advanced Ophthalmic Diagnostic Procedure & Instrumentation
Q.P Code :M1730

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

LONG ESSAY

2 X 20 = 40 Marks

1. Explain in detail about Direct ophthalmoscope.
2. Discuss the principle & functions of Auto refractometer. Add a note on Pupilometer.

SHORT ESSAY

6X 10 = 60 Marks

3. Write about Electroretinogram.
4. Discuss Lacrimal function tests.
5. Write a note on Potential Acuity Meter.
6. What is Tonometry ? Write the principles of Tonometer.
7. How to interpret Hess chart in sixth cranial nerve palsy.
8. Write about principle & uses of B - scan.

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