



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

M.Sc. in Optometry (M.Sc. OPH) First Year (Semester-I)
Examination-July 2021

Time: 3.00 Hrs

1Max. Marks: 1001

Applied Optometry Optics

Q.P. Code: M1210

*Your answers should be specific to the questions asked.
Draw and label diagrams wherever necessary*

LONG ESSAY

2X10=20 Marks

1. Define myopia. Write the classification, clinical manifestation and treatment of different types of myopia.
2. How do you record and order ophthalmic lenses.

SHORT ESSAY

10x5=50 Marks

3. What is diffraction of light explain.
4. What are the causes for irregular astigmatism add a note on treatment.
5. Explain spherical, cylindrical and toric surfaces.
6. How do you do lens polishing.
7. Write the treatment of hypermetropia.
8. What are the problems faced with thick spherical lenses. what is the solution.
9. What is reduced eye? Discuss.
10. Discuss spherical aberration.
11. Name three instruments needed for making lenses. Explain any one.
12. Explain photometry.

SHORT ANSWER

10x3=30 Marks

13. Mention three types of lenses used in ophthalmic patients.
 14. Mention three types of frames.
 15. Mention three types of material used to make lenses.
 16. Mention three ISI standards for lenses.
 17. Mention three disadvantages with high powered lenses.
 18. Mention two ways of verifying lenses.
 19. Mention three types of bifocal lenses.
 20. Mention principle of refraction.
 21. Types of Hypermetropia.
 22. Mention three terminologies used in lens workshops.
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M. Sc Optometry Semester - I

First year- July 2021

Max Marks : 100

Time: 3 Hrs

Epidemiology and Community Ophthalmology

QP Code: M1220

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

2X10=20 marks

Long Essay

1. Define Epidemiology. Classify various Epidemiological study designs. Describe the levels of prevention of diseases. (2+4+4)
2. What are causes for blindness in children in India? Describe the WHO grading of the clinical features and prophylaxis programme for Vitamin A deficiency followed in India. (2+4+4)

10X5=50 marks

Short essay

3. Describe the indicators of health
4. Compare and contrast clinical and community health programmes?
5. Describe the functions of DBCS.
6. Describe the epidemiological determinants for blindness in India.
7. Describe the activities carried out in service and vision centres under Vision 2020.
8. Describe the duties and responsibilities of a Community Optometrist.
9. Discuss the methodology for vision screening in School Eye screening programme.
10. What is trachoma? Enumerate the various grades of trachoma as per WHO. (1+4)
11. What are the aims and objectives of NPCBVI? Enumerate the diseases covered under NPCB.
12. Describe the proposed structure under Vision 2020 for control of blindness in India

10X3=30 marks

Short answers

13. What is incidence and prevalence?
14. What is community based rehabilitation?
15. Enumerate the steps of health planning
16. Enumerate the application of Tele-optometry?
17. What is blinding in RCT? What are its types.
18. List the uses of Dark goggles in Ophthalmology.
19. List three foods which are rich in Vitamin A.
20. Enumerate the uses of harvested eye?
21. Enumerate three International Organizations/Agencies involved in prevention and control of blindness?
22. Describe the role of education and communication in eye care programmes

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M.Sc. in Optometry (M.Sc. OPH) (Semester-I)

Examination - July 2021

[Max. Marks : 100]

Time : 3.00 Hrs.

Subject: Paper III: Advanced Ophthalmic Diagnostic Procedure and Instrumentation I

Q.P Code M1230

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

LONG ESSAY

2 X 10 = 20 Marks

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| 1. | Explain in detail about direct ophthalmoscope. |
| 2. | Discuss the principle and functions of Auto-refractometer. Add a note on Fundus fluorescein angiography |

SHORT ESSAY

10 X 5 = 50 Marks

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|-----|---|
| 3. | What is tonometry? Write the principles of tonometer. |
| 4. | Discuss Lacrimal Function Tests |
| 5. | Write a note on photo-coagulation |
| 6. | Mention the difference between Direct and Indirect Ophthalmoscope |
| 7. | Describe the principle and uses of B-Scan |
| 8. | Write a note on Potential Acuity Meter |
| 9. | Name the two theories of 'Colour'. Explain each with necessary diagrams |
| 10. | Write a note on Dark adaptation |
| 11. | Describe the tests of binocular single vision |
| 12. | Write a note on Electroretinography |

SHORT NOTE

10 X 3 = 30 Marks

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| 13. | Write about colour vision charts and what are colour vision defects? |
| 14. | Name various field testing devices. |
| 15. | How to Interpret of Hess test in VI cranial nerve palsy |
| 16. | Describe the interpretation of Lacrimal syringing |
| 17. | Describe the principle of Gonioscopy |
| 18. | Write a note on pupilometer |
| 19. | Describe the principle of Indirect ophthalmoscope |
| 20. | Write a short note on Hruby lens |
| 21. | Mention the tests for binocular single vision. |
| 22. | Describe the visual acuity Measurement in 3 year old child. |

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