



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year Semester-VI

September 2022 Examination

B.Sc. Ophthalmic Technology & Optometry

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject: Optometric Optics and Dispensing Optics

Q.P Code : J6720

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe in detail about the Spectacle frames, design and materials.
2. Explain in detail about the use of prisms in Ophthalmology.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

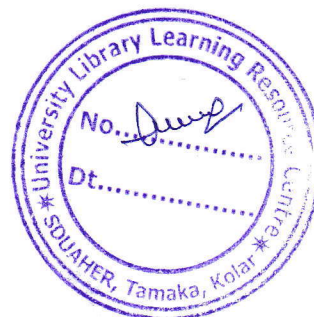
3. Mention disadvantages of Recumbent Prisms.
4. Discuss in detail about special purpose frame.
5. Explain about Presbyopia.
6. Write short note on Polycarbonate lenses
7. Write a note on Anti reflection coating.
8. Write short note on Binocular refraction.
9. Explain various steps of manufacturing of finished ophthalmic lens
10. Short note on Jackson cross cylinder.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Explain executive bifocals.
12. Write about Chromatic aberrations
13. Define LASER and give its characteristics.
14. Mention the different processes of glazing
15. Explain Datum system
16. Give the list of properties of light.
17. Define lens and give the types.
18. Describe frame selection criteria in children.
19. Describe Toric lenses.
20. Describe Faults in lens.
21. Describe Pantoscopic tilt.
22. Mention the types of progressive lenses.

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B.Sc. Ophthalmic Technology & Optometry

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject: Contact Lens and Occupational Optometry

Q.P Code : J6730

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the different types of fit in contact lens on spherical cornea with spherical lenses.
2. Describe the pre fitting examination in contact lens.

SHORT ESSAY (Answer any 6)

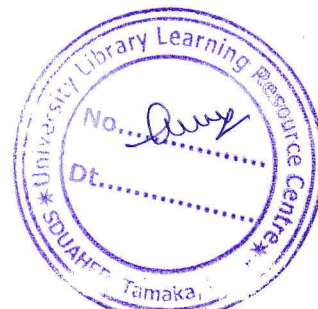
6 X 5 = 30 Marks

3. Mention the need for use of appropriate eye wear for Job.
4. Describe placido discs in detail.
5. What are the measures to be taken in case of eye injury?
6. Mention the advantages of contact lens use over spectacles.
7. Differentiate between daily wear and extended wear contact lens.
8. Describe contact lens design in detail.
9. Describe therapeutic contact lens.
10. Mention the different kinds of eye protection.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Mention the effects of contact lens on corneal nutrition.
12. Describe 3 and 9'O clock staining.
13. Mention some of the conjunctival complications of contact lens use
14. Name some of the wetting agents commonly used.
15. Describe the maintenance of contact lens.
16. Describe Epithelial microcysts.
17. Give the FDA classification of the contact lens.
18. Describe Oxygen permeability.
19. Describe surfactant cleaners.
20. Describe the different illuminations of the slit lamp.
21. Name the layers of the tear film.
22. Define Focons and Filcons.



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B.Sc. Ophthalmic Technology & Optometry

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject: Systemic Diseases, Management of OT

Q.P Code : J6740

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe Diabetes mellitus, types clinical features, diagnosis and management.
2. Describe the etiopathogenesis and clinical signs and symptoms of Thyroid eye disease.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Enumerate the difference between papilloedema and optic neuritis.
4. Enumerate the tuberculosis.
5. Describe Malaria.
6. Write about Vitamin A deficiency.
7. Mention the types of cancer.
8. Describe thyroid eye disease.
9. Describe the etiology, complications and management of Leprosy
10. Describe proptosis in detail.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Classify diabetes mellitus.
12. Write the signs of diabetic eye disease.
13. What are the different types of malaria parasites?
14. What are the causes for thyroid eye disease?
15. Write different types of Malnutrition.
16. Describe the diagnostic tests for diabetes mellitus.
17. Complications of Vitamin deficiency.
18. Functions of genes.
19. Management air embolism.
20. Describe Night blindness.
21. Pathology of systemic hypertension.
22. Write a note on Contact lens care.

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