



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

April 2023 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. Enumerate Frame parts and types in detail.
2. Write a note on Faults in lenses.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Give applications of polarized light.
4. Write a note on Anti reflection coating.
5. Describe polishing glass lenses.
6. Write a note on Photochromic lenses and its uses.
7. Describe Pantoscopic tilt.
8. Mention disadvantages of Fresnel Prisms.
9. Describe Frame selection criteria for high Minus prescription.
10. Write about regular astigmatism.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Give the advantages of Plastic frames over metal frames.
12. List the types of Plastic lenses.
13. Describe Convex lens
14. Mention the types of progressive lenses.
15. List the Neutralization procedures in Spherical lenses.
16. Mention the different processes of glazing.
17. What is the need to measure IPD?
18. Write a note on bridge in Spectacle.
19. Describe varifocal lens.
20. Describe Fused bifocals.
21. Describe measuring of temple in spectacle.
22. Mention the indications for prescription of Recumbent spectacle.



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Examination
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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 types of lens cutting, base curve , vertex distance of hard contact lenses
- 2 Describe the various types of fitting of contact lenses

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

- 3 Discuss accommodation
- 4 What are the types of convergence
- 5 What are the causes of corneal transparency
- 6 Discuss diffusion coefficient
- 7 Describe the clinical features of blepharitis
- 8 Discuss the test for dry eyes
- 9 What are the types of entropion
- 10 Discuss the different types of contact lenses

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

- 11 Mention the layers of cornea
- 12 Mention the layers of conjunctiva
- 13 What are therapeutic contact lenses
- 14 Mention the test for hard contact lens fitting
- 15 Mention the push up test for soft contact lenses
- 16 Mention 3 prefitting examination of contact lenses
- 17 Mention the 3 causes of trichiasis
- 18 Mention the 3 causes of madarosis
- 19 Mention the 3 causes of ptosis
- 20 Mention the 3 uses of hybrid lenses
- 21 What is magnifying lenses
- 22 What are hybrid contact lens

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

April 2023 Examination

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 Cancer in detail.
2. Describe Rheumatoid heart disease

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Enumerate the effects of diabetes mellitus on eye.
4. Write the complications of Thyroid eye disease.
5. Describe the stages of diabetic retinopathy.
6. Write the management of leprosy.
7. What are the measures taken for medical emergencies?
8. Describe anesthetic agents used in eye.
9. Tuberculosis.
10. Management of bacterial endocarditis.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Describe Xerophthalmia.
12. Define Ocular TB and its types.
13. Describe Hyper thyroidism.
14. Effects of malnutrition.
15. What are the effects of hypertension on eye.
16. Describe Helminthiasis.
17. Write a short note on tropical medical illness.
18. Write the management of malnutrition.
19. Write a note on immunology.
20. Define Blood Pressure.
21. Mention lubricants used to treat dry eye.
22. Mention various Optometric surgical instruments in OT.

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