

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year (Semester-V)

March 2022 Examination

B.Sc. Ophthalmic Technology & Optometry

Time: 2.30 Hrs.

[Max. Marks: 80]

SUBJECT: OCULAR DISEASE -II

Q.P Code: J5680

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 clinical methods of assessing the posterior segment.
2. Describe the clinical features and management of vitreous haemorrhage.

SHORT ESSAY (Answer any six)

6 X 5 = 30 Marks

3. Explain the causes of infectious optic neuritis.
4. Explain the causes for consecutive optic atrophy.
5. Describe the types and clinical features of Retinal detachment.
6. Describe Colour blindness testes.
7. Describe Visual field defects in neuro-ophthalmology.
8. Discuss Optic disc changes in papilledema.
9. Describe Amaurosis fugax.
10. Discuss Hypertensive retinopathy.

SHORT ANSWERS (Answer any ten)

10 X 3 = 30 Marks

11. Mention 3 Tests for malingering.
12. Mention 6 causes for night blindness
13. Mention the clinical signs in optic neuritis
14. Mention disc changes in anterior neuritis
15. Mention Ocular manifestations of Neurofibromatosis
16. Write 3 Systemic features of multiple sclerosis
17. Describe clinical features of Retinitis pigmentosa
18. Mention Optic nerve function test
19. Mention Ocular manifestation in giant cell arteritis
20. Mention 3 Causes for cherry red spot
21. Write 3 Differential diagnosis for papilledema
22. Mention 3 Macular function test.



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[Max. Marks: 80]

Time: 2.30 Hrs.

SUBJECT: CLINICAL AND ADVANCED ORTHOTICS & OPTICS

Q.P Code: J5690

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

LONG ESSAY

2 X 10 = 20 Marks

1. Define and classify Amblyopia. Describe clinical features and management of Amblyopia.
2. Discuss the etiology, clinical features and treatment of paralytic squint.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Describe diplopia charting.
4. Describe Abnormal retinal correspondence.
5. Write a note on abnormal head posture.
6. Describe the procedure of maddox rod test.
7. Illustrate Diplopia charting in third nerve palsy.
8. Describe Optokinetic Nystagmus.
9. Describe Pleoptics.
10. Describe visual acuity testing in pre-school children.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Mention any three causes of amblyopia.
12. What are the grades of binocular single vision?
13. Illustrate Diplopia charting in sixth nerve palsy.
14. Mention types of occlusion.
15. Define the following:
 - a. Suppression
 - b. Diplopia
16. What are the 3 methods to calculate AC/A ratio?
17. What are the 3 types of Ametropia?
18. What is the principle of Retinoscopy?
19. Define range and amplitude of Accommodation.
20. Give an example of Jacksons cross cylinder.
21. Name any 3 types of Myopia.
22. Name the extraocular muscles and their nerve supply.



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Time: 2.30 Hrs.

[Max. Marks: 80]

SUBJECT: COMMUNITY OPHTHALMOLOGY

Q.P Code: J5700

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 × 10 = 20 marks

1. Describe the Clinical Features of Vitamin A deficiency. Discuss the management and prophylaxis of Vitamin A deficiency in India. Enumerate foods which are rich in Vitamin A. (3+5+2)
2. Describe the etiology, risk factors, clinical features and management of Trachoma. Add a note on Trachoma Rapid Assessment Survey. (7 + 3)

SHORT ESSAY (Answer any Six)

6 × 5 = 30 marks

3. What is Avoidable Blindness? Enlist the Causes for the Avoidable Blindness. (1+4).
4. Describe the Proposed structure for Vision 2020 Under NPCBVI?
5. Describe the functions of DBCS?
6. What is an Eye Donation? What are the Contraindications for Eye donation? (1+4)
7. Describe the duties and responsibilities of a Community Optometrist.
8. What are the components of Primary Eye Care?
9. Enumerate the Causes for Visual Impairment in India.
10. Describe the Epidemiological Determinants for Blindness in India?

SHORT ANSWER (Answer any Ten)

10 × 3 = 30 marks

11. List six diseases covered under NPCBVI?
12. Define and Classify Visual Impairment as per Visual Acuity under WHO?
13. What is the role of the School teacher in prevention of blindness in children?
14. Enlist various IEC activities followed in India for Control of Blindness.
15. Enumerate six causes for Corneal Blindness.
16. Global Eradication of Trachoma.
17. List the Fundoscopic Findings/ Signs in Hypertensive Retinopathy.
18. Describe the Pterygium.
19. List any three Transport and Storage Medias for Enucleated Eye.
20. Enumerate the Supporting Partners for Eye Bank in India.
21. List the details to be printed on the Organ Donor Card.
22. List three drugs used for treatment of Glaucoma.



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Time: 2.30 Hrs.

[Max. Marks: 80]

SUBJECT: Contact lens and eye bank

Q.P Code : J5710

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

LONG ESSAY

2 X 10 = 20 Marks

1. Describe rigid gas permeable lens fitting procedure step by step with the help of diagram.
2. Classify contact lenses in terms of material with advantages and disadvantages.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Mention the functions and personnel needed for eye collection Centre
4. Initial patient workup before contact lens fitting.
5. What are the preservation media used in eye bank?
6. Discuss briefly about extended wear contact lens
7. Documentation and registration of donor eyes.
8. Write an essay on cosmetic contact lenses.
9. What are the rules and regulations of eye donation?
10. Explain contact lens fitting in keratoconus.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Contact lens options in presbyopia.
12. Legal aspects of eye donation.
13. What is Pushup test?
14. What are the various methods for publicity of eye donation?
15. What are the enzymes present in cleaning solution of contact lens?
16. Functions of eye bank.
17. Tear lens system.
18. Legal aspects of eye donation.
19. What is three-point touch technique?
20. Explain the function of eye bank.
21. What is "Oxygen permeability of contact lens"?
22. Enumerate the steps of enucleation

