

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year (Semester-IV)

September 2021 Examination

B.Sc. Ophthalmic Technology & Optometry

Time : 2.30 Hrs.

[Max. Marks : 80]

SUBJECT : OCULAR DISEASE-I (Anterior Segment Disease)

Q.P Code : J4640

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 anatomy of upper eye lid, list common eye lid swellings and their management.
2. Describe Blepharitis- its types, signs, symptoms, etiology, and management in detail.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Write the symptoms, signs and types of scleritis.
4. What are the clinical signs of thyroid eye disease?
5. Give an account on stromal corneal dystrophies.
6. Write five causes of ectropion.
7. Define and describe the clinical features of External Hordeolum (Stye).
8. Describe the evaluation of ptosis.
9. Write a note on bacterial conjunctivitis.
10. Describe the etiology, Trachoma, clinical features, and management of Trachoma.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Mention the types of cataract.
12. Describe the management of chalazion.
13. Describe buphthalmos.
14. List the diagnostic procedures for glaucoma.
15. Enlist the treatment modalities for diabetic retinopathy.
16. Describe the causes for conjunctivitis.
17. Give the etiological classification of the cataract.
18. Describe the pre operative evaluation of the cataract.
19. Define normal tension glaucoma(NTG)
20. Mention the instruments to measure intra ocular pressure (IOP).
21. Mention the types of glaucoma.
22. Define Subluxation.

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Ocular Pathology, Ocular Pharmacy and Pharmacology

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(Use separate answer booklet for Section A & B)

Section – A

Ocular Pathology (40 Marks)

Q.P Code : J4655

LONG ESSAY

1 x 10 = 10 marks

1. Write normal histology of Retina .Discuss aetiology , pathogenesis and pathology of Retinoblastoma.

SHORT ESSAY (Answer any Three)

3 x 5 = 15 marks

2. Infectious lesions of Eyelid .
3. Inflammation
4. Wound healing
5. Corneal Dystrophies

SHORT ANSWERS (Answer any five)

5 x 3 = 15 marks

6. Draw and neatly label the diagram of Eyeball with optic nerve
7. Three causes for Ketonuria .
8. Three causes for Microcytic Hypochromic Anaemia .
9. Tuberculosis of eye.
10. Three causes for Oliguria .
11. Blepharitis.

Section – B

Ocular Pharmacy & Pharmacology (40 Marks)

Q.P Code : J4656

(Use separate answer booklet for Section-B.

LONG ESSAY

1 X 10 = 10 Marks

1. Classify anti inflammatory agents. Explain mechanism of action, uses and adverse effects of diclofenac (4+2+2+2)

SHORT ESSAY (Answer any Three)

3X 5 = 15 Marks

2. Explain the periocular route of administration with examples
3. Explain mechanism of action of **five** drugs from different category used in the treatment of glaucoma
4. Explain mechanism of action, uses and adverse effects of doxycycline (2+2+1)
5. Explain cycloplegia. Mention drugs causing it and write their uses (2+2+1)

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

6. Mention **three** drugs used in cytomegalovirus retinitis
7. Mention **three** ocular dyes and write their uses
8. Explain mechanism of action and write **one** use and **one** adverse effect for carboxymethyl cellulose
9. Explain mechanism of action and write **two** uses of tacrolimus
10. Mention **three** types of contact lens solution
11. Mention **three** methods of preventing contamination in outpatient services



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B.Sc. Ophthalmic Technology & Optometry

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject : Ophthalmic And Optical Instrumentation And Procedures

Q.P Code : J4660

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe direct ophthalmoscopy in detail.
2. Explain Subjective Refraction in detail.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Mention different types of tonometers.
4. Give the principles of Fundus Fluorescein Angiography (FFA).
5. Write the principle of radiuscope.
6. Give the characteristics of prism.
7. What are the different types of LASER?
8. Describe compound microscopes.
9. Give the clinical importance of Perimetry.
10. Differentiate between direct ophthalmoscope and indirect Ophthalmoscope.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. Explain Worth 4 dot test.
12. Describe the procedure of Ishihara test for colour vision.
13. What are the advantages of keratometer.
14. Describe Dynamic retinoscopy.
15. Describe the procedure of Jackson cross cylinders.
16. Give the procedure of Humphrey visual field analyser.
17. Define Pachymeter.
18. Describe Schiotz tonometer.
19. Mention the clinical applications of direct ophthalmoscope.
20. Define Ophthalmic prism.
21. Define Spectrometer.
22. Expand LASIK.

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B.Sc. Ophthalmic Technology & Optometry

Time : 2.30 Hrs.

[Max. Marks : 80]

Subject : Refraction Investigative Ophthalmology

Q.P Code : J4670

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. What is binocular single vision? Describe the three grades of BSV.
2. Write a long note refinement and finalization of cylindrical lens axis and power.

SHORT ESSAY (Answer any 6)

6 X 5 = 30 Marks

3. Write a note on abnormal head posture.
4. Describe Retinoscopy, principle and method.
5. Describe Myopia.
6. Give the types of occlusion therapy in managing amblyopia.
7. Discuss the origin, insertion, nerve supply and actions of extra ocular muscles.
8. Describe Astigmatism, its clinical features, types and management.
9. Describe a Maddox rod and add a note on its uses.
10. Enumerate Keratoconus.

SHORT ANSWERS (Answer any 10)

10 X 3 = 30 Marks

11. What are the signs of fourth cranial nerve palsy?
12. Mention three types of ARC.
13. Write about uses of synaptophore.
14. Name the test charts used for pediatric visual acuity assessment.
15. Mention three uses of RAF ruler.
16. What is Hering's law?
17. Write a note on treatment modalities of astigmatism.
18. Hirschberg test.
19. Mention any three types of amblyopia.
20. Name the types of nystagmus.
21. Mention any three signs of paralytic squint.
22. Mention three causes of Aphakia