C–8986	Sub. Code
	93311

DIPLOMA EXAMINATION, APRIL 2023

Non - Semester

Ophthalmic Techniques

FUNDAMENTAL SCIENCES

(2016 onwards)

Duration : 3 Hours   Maximum : 75 Marks

Part A $(10 \times 2 = 20)$

Answer **all** questions.

1. Name the layers of Cornea.

2. Draw and label the structure of pupil.

3. Define accommodation.

4. What are the chemical composition of tear.

5. Define Corneal Scraping.

6. Mention any two viral ocular disease.

7. What is ocuaserts? Write its application.

8. Mention the drug toxicity.

9. List the types of Conjunctivitis.

10. What is Exophthalmosis?

Part B $(5 \times 5 = 25)$

Answer **all** questions

11. (a) Mention the anatomical changes in Conjunctivitis.

Or

(b) Outline the extra ocular muscles.

12. (a) Explain the color vision.

Or

(b) Write short notes on infra ocular pressure.

13. (a) Draw a neat diagram of a bacteria and label it.

Or

(b) What are ocular normal flora? Explain.

14. (a) Write short notes on drug receptor.

Or

(b) Give a note on drug – dose relationship studies.

15. (a) Sketch the different types of hardulum in eye lid.

Or

(b) Picturize the squint eye.

Part C $(3 \times 10 = 30)$

Answer **all** questions.

16. (a) Explain the lacrimal system of eye.

Or

(b) Elaborate the formation and circulation of aqueous humor.

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17. (a) Sketch the Gram's acid-fast staining.

Or

(b) List the ocular infections caused by fungi.

18. (a) Illustrate the general route of drug application.

Or

(b) Demonstrate the retinoblastoma by structural representation.

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DIPLOMA EXAMINATION, APRIL 2023.

Non – Semester

Ophthalmic Techniques

REFRACTION

(2016 onwards)

Duration : 3 Hours　　　　　　　　Maximum : 75 Marks

Part A　　　　　(10 × 2 = 20)

Answer **all** questions.

1.　Snell's Law.

2.　Draw a biconvex lens and Planco Conrex lens.

3.　What is against motion in Retinoscopy?

4.　Define power of a lens.

5.　Define conoid of sturm.

6.　What happens to light with a prism?

7.　What is diffraction?

8.　Size of a pinhole and its use.

9.　6/6 – Explain in two lines.

10.　Expand HFA. Mention its use.

Part B $(5 \times 5 = 25)$

Answer **all** questions.

11. (a) Sign conventions in optics.

Or

(b) Rergence equation.

12. (a) Importance of IPD measurement.

Or

(b) Draw a sample spectacle prescription and explain.

13. (a) Image formation in different types of lenses.

Or

(b) Write about uses of prisms.

14. (a) Parts of a lensometer.

Or

(b) Hand neutralisation technique.

15. (a) List the trial box accessories.

Or

(b) Recording of visual acuity.

Part C $(3 \times 10 = 30)$

Answer **all** questions.

16. (a) Write in detail about different types of radioscopic reflexes in Myopia, Hyperopia and Astigmatism use diagrams.

Or

(b) How to measure IPD? Write in detail.

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17. (a) Evaluation of visual acuity.

Or

(b) Snellen charts-Write a detailed note.

18. (a) Uses of Perimetry.

Or

(b) Elaborate on low vision aids.

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		93313

DIPLOMA EXAMINATION, APRIL 2023.

Non Semester

Ophthalmic Techniques

EYE DISEASES AND OPHTHALMIC PRACTICE

(2016 onwards)

Duration : 3 Hours   Maximum : 75 Marks

Part A $(10 \times 2 = 20)$

Answer **all** questions.

1. How to treat a stye?

2. How to treat blepharitis?

3. Prism bar cover test

4. What is a pinguecula?

5. What is nuclear sclerosis?

6. What is hypopyon?

7. What is pannus?

8. Expand IOFB

9. What are cotton wool spots?

10. _____ discharge is seen in viral keratitis and _____ discharge in bacterial keratitis.

Part B $(5 \times 5 = 25)$

Answer **all** questions.

11. (a) What are the signs of Glaucoma?

Or

(b) Write different Tests for Glaucoma.

12. (a) Write short notes on Scleritis.

Or

(b) What are the Diagnosis of Iridocyclitis?

13. (a) Briefly explain the Herpes infections of cornea.

Or

(b) Give short notes on 'Madras Eye'.

14. (a) What do you mean by Complicated cataract?

Or

(b) Write the effects of Conjunctival xerosis.

15. (a) Write the reasons for Disorder of Eyelid.

Or

(b) Write short notes on Dacryocystitis.

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Answer **all** questions.

16. (a) What do you mean by Ocular injuries. Discuss the types and prognosis?

Or

(b) Write in elaborate about Retinitis pigmentosa.

17. (a) Explain in detail about the different types of cataract.

Or

(b) Explain the different treatment procedure for ureitis.

18. (a) What are the different types of conjunctivitis. Explain in detail.

Or

(b) Write in detail about comitant squints.

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DIPLOMA EXAMINATION, APRIL 2023.

Non Semester

Optometry Techniques

OPTOMETRIC INSTRUMENTS

(2016 onwards)

Duration : 3 Hours   Maximum : 75 Marks

Part A   (10 × 2 = 20)

Answer **all** questions.

1.   What is conical illumination in slit lamb?

2.   What is Red free filter?

3.   Any two uses of Microscopes in ophthalmology

4.   Any two cataract surgical instruments

5.   Difference between a spot and streak retinoscope.

6.   Define the term perimeter

7.   What is the use of a Bierrum screen?

8.   Any two uses of Red green Goggles.

9.   Different types of suture materials.

10.   Expand RAF ruler.

Part B $(5 \times 5 = 25)$

Answer **all** questions.

11. (a) Differences between Direct and Indirect ophthalmoscope

Or

(b) Types of tonometers - List

12. (a) Uses of Keratometer

Or

(b) When to use A – Scan?

13. (a) How to use a Retinoscope?

Or

(b) Write short note on Snellen's test.

14. (a) Write in brief about Glucometer.

Or

(b) Share a brief account on Artificial eye.

15. (a) Procedure of using a BD apparatus

Or

(b) Write notes on prism bar.

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Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail about Indirect Ophthalmoscope

Or

(b) Operation of a tonometer

17. (a) Write in detail about Gonioscopes with diagram

Or

(b) Discuss about the surgical instruments learnt in this paper.

18. (a) Write an account on laboratory maintenance

Or

(b) Different types of vision charts used for testing distance and near vision.

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