

**C-8002**

**Sub. Code**

**93311**

**DIPLOMA EXAMINATION, NOVEMBER 2022.**

**Non-Semester**

**Ophthalmic Technique**

**FUNDAMENTAL SCIENCES**

**(2016 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Define conjunctivitis.
2. What are the components of extra ocular muscles?
3. Brief the intra ocular pressure (IOP).
4. List out the layers of cornea.
5. Mention the ocular normal flora.
6. Brief the corneal scraping.
7. What is therapeutic index?
8. What are the types of injection?
9. Draw the picture of hordeolum internum.
10. Mention the albino eye.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write the anatomy of pupil.

Or

- (b) Explain the anatomy of optic nerve.

12. (a) Explain the mechanism of accommodation.

Or

- (b) Mention the formation of tear.

13. (a) Draw a neat diagram of T4 virus and label it.

Or

- (b) Discuss briefly on ocular infection of fungi.

14. (a) Explain the types of drug.

Or

- (b) Elaborate the adverse drug reactions.

15. (a) Discuss on the conditions of conjunctivitis.

Or

- (b) Explain the retinoblastoma.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Elaborate the components of posterior chamber of eye.

Or

- (b) Write in detail note on anatomy of cornea and sclera.

17. (a) Discuss the mechanisms of binocular and color vision of eye.

Or

- (b) Describe in detail on steps involved in Gram's staining.

18. (a) Discuss types and uses of bacterial culture media.

Or

- (b) Elaborate the topical route of drug administration.

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**C-8003**

**Sub. Code**

**93312**

**DIPLOMA EXAMINATION, NOVEMBER 2022**

**Non-Semester**

**Ophthalmic Techniques**

**REFRACTION**

**(2016 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is refractive index of a medium?
2. With motion indicates \_\_\_\_\_ refractive error and \_\_\_\_\_ lenses are to be used.
3. Formula for power of lens.
4. What is Real image?
5. Uses of pinhole.
6. Explain monocular estimate method.
7. 6/60 What does this mean?
8. What are the uses of SITA fast in humphrey perimetry?
9. Any two indications for contact len fitting.
10. What is OBR?

**Part B**

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Draw a diagram and show refraction of light through air, water and a positive lens.

Or

- (b) What is the importance of measuring IPD?

12. (a) What is spherical equivalent? How to calculate it?

Or

- (b) Discuss about Dynamic retinoscopy.

13. (a) Give brief notes on uses of prisms.

Or

- (b) What are the uses of keratometry?

14. (a) Write a sample spectacle prescription and explain its components.

Or

- (b) Parts of a trial frame with diagram.

15. (a) How telescope is used as a low vision Aid?

Or

- (b) Snellen Acuity chart.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail about laws of refraction.

Or

- (b) Give notes on perimetry.

17. (a) Write in detail about characteristics of images, real virtual. Give diagram.

Or

(b) Visual acuity testing methods.

18. (a) Procedure of Keratometry.

Or

(b) Construction and use of Lensometry.

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**C-8004**

**Sub. Code**

**93313**

**DIPLOMA EXAMINATION, NOVEMBER 2022.**

**Non-Semester**

**Ophthalmic Techniques**

**EYE DISEASES AND OPHTHALMIC PRACTICE**

**(2016 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** the questions.

1. Trichiasis
2. Symptoms of acute dacryocystitis.
3. Meaning of xerosis.
4. What is madras eye?
5. Signs of viral keratitis.
6. How to differentiate episcleritis and scleritis.
7. Causes of secondary cataract.
8. Remedy for congenital cataract.
9. What is IOP?
10. Cotton wool spots are found in which stage of \_\_\_\_\_.

**Part B**

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Chalazion. Signs and Management.

Or

- (b) Write about amblyoscope.

12. (a) What are the types of discharge found in various types of conjunctivitis?

Or

- (b) Differentiate Pterygium and Pinguecula.

13. (a) Give brief notes On Hypopyon corneal ulcer.

Or

- (b) What are the differences between episcleritis and scleritis?

14. (a) Grading of PSC.

Or

- (b) Management of Senile cataract.

15. (a) Describe Buphthalmos.

Or

- (b) First aid for chemical burns.

**Part C**

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Write in detail about the types of squint.

Or

- (b) Give detailed notes on types of conjunctivitis and differential diagnosis involved.



17. (a) Write in detail about Viral keratitis.

Or

(b) Classification of cataracts.

18. (a) Write in detail about types of Glaucoma.

Or

(b) Give notes on Optic Neuritis.

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**C-8005**

**Sub. Code**

**93314**

**DIPLOMA EXAMINATION, NOVEMBER 2022**

**Non – Semester**

**Ophthalmic Techniques**

**OPTOMETRIC INSTRUMENTS**

**(2016 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** the questions.

1. Name any four surgical instruments for cataract surgery.
2. Note on Nylon sutures.
3. Prism Bar
4. Principle of Gonioscopy.
5. Hess Screen
6. Write any two near vision charts.
7. Principle of Retinoscopy.
8. Note about causative organism for corneal ulcer.
9. Name the types of indirect tonometers.
10. Sclerotic scatter.

**Part B**

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Slit lamp techniques for fundus examination.

Or

- (b) Significance of school screening programmes.

12. (a) Write a note on spot retinoscopes and its use.

Or

- (b) Note down the advantages, disadvantages and limitations of Keratometer.

13. (a) Discuss about glaucoma surgical instruments.

Or

- (b) Note down the parts of slit lamp.

14. (a) Write a note on perimeters.

Or

- (b) Write a note on BP apparatus.

15. (a) Discuss Briefly about A scan technique.

Or

- (b) Write a note on cylindrical power refinement.

**Part C**

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Discuss detail about the parts and procedure of direct ophthalmoscope.

Or

- (b) Discuss about types, procedure and advantages of indirect gonioscopy.

17. (a) Write briefly about principle, parts and procedure of Bausch and Lomb Keratometer.

Or

- (b) Write down the significance of cycloplegic refraction in young adults.

18. (a) Note down the types of retinoscopies and Discuss about the significance of dark room maintenance for retinoscopy.

Or

- (b) Write a note on contact and Non-contact tonometer.

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