

C-5579

Sub. Code

93311

**DIPLOMA EXAMINATION  
OPHTHALMIC TECHNIQUES  
NOVEMBER 2021 EXAMINATION**

**Non- Semester**

**FUNDAMENTAL SCIENCE**

**(2016 onwards)**

Duration: 3 Hours

Maximum: 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** the questions.

1. What is papilledema of optic nerve?
2. Write briefly on corneal vascularisation.
3. Name the glands which are constructing tear.
4. List any two dry eye syndrome.
5. Mention the bacterial classification based on the shape.
6. Brief on culture media.
7. Write short notes on drug position.
8. Mention the synthetic drug.
9. Discuss briefly on redness of conjunctivitis.
10. Mention the white spot of the eye.

**Part B**

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Write short notes on the anatomical structure of cornea.

Or

(b) Explain the anatomy of vitreous humour.

12. (a) Brief the normal vision.

Or

(b) Describe the formation of aqueous humour.

13. (a) Mention the methods of collection of ocular specimen.

Or

(b) Discuss the ocular lesions caused by viruses.

14. (a) Elaborate the drug dose relationship.

Or

(b) Explain the mechanism of drug action.

15. (a) Elaborate the pathology of hordeolum externum.

Or

(b) Explain the conditions of keratoconus.

**Part C** (3 × 10 = 30)

Answer **all** questions choosing either (a) or (b).

16. (a) Elaborate the retinal layers with structural

representation .

Or

(b) Write in detail note on visual pathway.

17. (a) Describe the physiology and maintenance of corneal transparency.

Or

(b) Discuss in detail on factors influencing the IOP.

18. (a) How do you perform Acid-fast staining procedure? Explain.

Or

(b) Write an essay on systemic administration of drug?

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**C-5580**

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**93312**

**DIPLOMA EXAMINATION  
OPHTHALMIC TECHNIQUES  
NOVEMBER 2021 EXAMINATION**

**Non- Semester**

**REFRACTION**

**(2016 onwards)**

Duration: 3 Hours

Maximum: 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** the questions.

1. Define Visual acuity
2. Maddox rod.
3. Define Blindness.
4. Define Polarization.
5. Define Refractive index.
6. Laws of reflection.
7. Principle of Helmholtz keratometer.
8. Total internal reflection.
9. Principle of A-Scan.
10. Diagnostic uses of Prism.

**Part B**

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Astigmatism.

Or

(b) Snellen's Chart.

12. (a) IPD Measurement.

Or

(b) Spectacle Magnifier.

13. (a) RGP lens materials.

Or

(b) Tear film and its importance in CL fitting

14. (a) Contra indication of CL

Or

(b) Eye as optical system.

15. (a) Observation and interference of red reflex in retinoscopy.

Or

(b) Right having a power of +0.75 sphere and +1.25 cyl @ 180° and left +0.75 cyl @ 180° with visual acuity 6/6 for both eyes. Write spectacle prescription.

**Part C**

(3 × 10 = 30)

Answer **all** questions choosing either (a) or (b).

16. (a) Strum's Conoid

Or

(b) A-Scan.

17. (a) Prism – Prismatic power, light rays through a prism and it uses.

Or

(b) Myopia.

18. (a) Bausch and Lomb Keratometer

Or

(b) Neutralization of red reflex in streak retinoscopy

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C-5581

Sub. Code

93313

**DIPLOMA EXAMINATION**  
**OPHTHALMIC TECHNIQUES**  
**NOVEMBER 2021 EXAMINATION**

**Non- Semester**

**EYE DISEASES AND OPHTHALMIC PRACTICE**

**(2016 onwards)**

Duration: 3 Hours

Maximum: 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** the questions.

1. What are the stages of Nuclear cataract
2. Applanation tonometer
3. AV Pattern.
4. A Scan.
5. Complication of cataract surgery.
6. Iridodonesis.
7. Viral Conjunctivitis.
8. AC/A ratio.
9. Xerophthalmia.
10. What is Ectropian.

**Part B**

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) IDS.

Or

(b) Blepharitis.

12. (a) Dry Eyes.

Or

(b) Write in brief about Keratitis.

13. (a) Panophthalmitis.

Or

(b) Developmental Cataract

14. (a) Multifocal lens for cataract

Or

(b) Diabetic Retinopathy.

15. (a) Hypertensive Retinopathy

Or

(b) Chemical burns

**Part C**

(3 × 10 = 30)

Answer **all** questions choosing either (a) or (b).

16. (a) Write about Ocular injuries in detail

Or

2

**C-3833**



(b) Write in detail about the investigation and management of Glaucoma.

17. (a) LRCS

Or

(b) Scleritis – Types and Management.

18. (a) Exotropia

Or

(b) Accommodative Esotropia in detail

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**C-5582**

**Sub. Code**

**93314**

**DIPLOMA EXAMINATION  
OPHTHALMIC TECHNIQUES  
NOVEMBER 2021 EXAMINATION**

**Non- Semester**

**OPTOMETRIC INSTRUMENTS**

**(2016 onwards)**

Duration: 3 Hours

Maximum: 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** the questions.

1. Bjerrum's Screen
2. Principle of Keratometry
3. Uses of Prism bar.
4. Advantages of snellen's visual acuity chart.
5. Types of Perimetry.
6. What is trial set?
7. What is tonometry.
8. SICS
9. Contrast Sensitivity test.
10. Moses effect.

**Part B**

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Write about retinoscope and its principle?

Or

(b) Different types of IOL calculation.

12. (a) Explain Direct Ophthalmoscope.

Or

(b) Detail on Amblyoscopes.

13. (a) Microscopes and its types.

Or

(b) Write about Ocular Prosthesis

14. (a) Glucometer in detail

Or

(b) Worth 4 dot test in brief.

15. (a) Visual field effects in glaucoma

Or

(b) Write about Sphygmomanometer

**Part C**

(3 × 10 = 30)

Answer **all** questions choosing either (a) or (b).

16. (a) Write about trab surgery

Or

2

**C-3833**

(b) Detailed on vision charts.

17. (a) A Scan in detail  
Or

(b) Indirect ophthalmoscope in detail.

18. (a) Detail on conducting screening and refraction eye  
camps.

Or

(b) Keratometer in detail.

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