

C-4372

Sub. Code

93311

**DIPLOMA EXAMINATION
OPHTHALMIC TECHNIQUES
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
FUNDAMENTAL SCIENCES
(2016 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. List the layers of cornea.
2. List the names of accessory lacrimal glands.
3. What is the normal range of IOP?
4. Which is the site of Aqueous humor production?
5. What are the glands that produce aqueous layer of tears?
6. What is the size of the pupil?
7. List the layers of retina.
8. List materials used for staining.
9. What are cycloplegic drugs?
10. Write any two names of bacteria.

Part B

(5 × 5 = 25)

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

11. (a) Morphology and basic characteristic of virus.

Or

- (b) Microscopic examination of organisms and staining.

12. (a) Write a note on function of tears.

Or

- (b) Explain about optic nerve.

13. (a) Write a note on anatomy of conjunctiva and vitreous.

Or

- (b) Draw a tabular column of origin, course and insertion of EOM.

14. (a) Write a note on colour vision.

Or

- (b) Visual acuity.

15. (a) Write a note on ophthalmic drugs.

Or

- (b) Formation and circulation of aqueous humour.

Part C

(3 × 10 = 30)

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

16. (a) Write in detail about the layers of retina.

Or

- (b) Explain visual pathway with a neat labelled diagram.

17. (a) Explain about corneal transparency

Or

(b) Intraocular pressure

18. (a) Explain about any two common eye disease and its pathology.

Or

(b) Explain about types of drugs and side effects of drugs.

C-4373

Sub. Code

93312

**DIPLOMA EXAMINATION
OPHTHALMIC TECHNIQUES
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
REFRACTION
(2016 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is real image?
2. What is virtual image?
3. What is presbyopia?
4. Define blindness.
5. What is astigmatism
6. List the refractive index of different media
7. What is spherical equivalent?
8. List the details that should be mentioned in a glass prescription.
9. What is spherocylindrical lenses?
10. Definition of low vision.

Part B

(5 × 5 = 25)

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

11. (a) Write a note on Diffraction.

Or

- (b) Write a note on Polarisation.

12. (a) Write a note on Low vision aids.

Or

- (b) Perimeter.

13. (a) List and explain the accessories in trial set.

Or

- (b) Explain about various visual acuity charts.

14. (a) Keratometer.

Or

- (b) Contact lens fitting

15. (a) Dynamic retinoscopy.

Or

- (b) Prisms.

Part C

(3 × 10 = 30)

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

16. (a) Write a note on subjective refraction.

Or

- (b) Write a note on objective refraction.

17. (a) Intraocular lens

Or

(b) A scan

18. (a) Write a note on refractive errors.

Or

(b) Lensometer.

C-4374

Sub. Code

93313

DIPLOMA EXAMINATION
OPHTHALMIC TECHNIQUES
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
EYE DISEASE AND OPHTHALMIC PRACTICE
(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Antiviral drugs.
2. Provocative test for glaucoma.
3. Gonioscope.
4. Pingecula.
5. Zonular cataract.
6. Buphthalmos.
7. Xerosis.
8. OCT.
9. Subluxation of Lens.
10. Saline Wash.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about episcleritis.

Or

(b) Explain hypertensive retinopathy.

12. (a) Write about dacryocystitis.

Or

(b) Write about ophthalmia neonatorum.

13. (a) Write in detail about ocular emergencies.

Or

(b) Explain pterygium.

14. (a) Write about PCO.

Or

(b) Explain blepharitis and its types.

15. (a) Write about sympathetic ophthalmia.

Or

(b) Write about exotropia and management.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write about congenital cataract.

Or

(b) Explain Primary Open angle glaucoma.

17. (a) Write about congenital glaucoma.

Or

(b) Explain viral keratitis.

18. (a) Write about panophthalmitis.

Or

(b) Explain Diabetic Retinopathy.

C-4375

Sub. Code

93314

DIPLOMA EXAMINATION
OPHTHALMIC TECHNIQUES
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
OPTOMETRIC INSTRUMENTS
(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Benefits of screening.
2. Principle of duochrome.
3. List any four pediatric visual acuity charts.
4. Mention any two sources of error while performing applanation tonometry.
5. Mention any two glaucoma surgery.
6. What are the different components in urine analysis.
7. List the indications for artificial eye.
8. SRK I formula.
9. Mention few glaucomatous field defect.
10. Give normal blood sugar level.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write note on glucometer.

Or

(b) Write note on any one glaucoma surgical instrument.

12. (a) Explain difference between DO & IDO.

Or

(b) Write about RAF ruler.

13. (a) Write in detail about LogMAR chart.

Or

(b) Jackson cross cylinder.

14. (a) Discuss about application of silk sutures.

Or

(b) Write briefly on schiotz tonometry.

15. (a) Write note on gonioscopy procedure.

Or

(b) List the uses of red-green goggles in optometry.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about direct ophthalmoscope.

Or

(b) Discuss about non-contact tonometry.

17. (a) What is Bjerrum screen and explain its procedure and advantages?

Or

(b) Write about Retinoscope.

18. (a) Write in detail about slitmap, optics, parts and uses.

Or

(b) Explain in detail pharcoemulsification procedure.

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**DIPLOMA EXAMINATION
FUNDAMENTAL SCIENCES
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
OPHTHALMIC TECHNIQUES
(Upto 2015 Batch)**

Duration : 3 Hours

Maximum : 70 Marks

Part A

(5 × 2 = 10)

Answer **all** questions.

1. What is accommodation?
2. Name two bacteria.
3. Name two dialing eye drops.
4. What structure compromise uveal tissue.
5. Define cataract.

Part B

(4 × 5 = 20)

Answer any **four** questions.

6. What are corticosteroids? Explain the role of corticosteroids in ophthalmology.
7. Classify glaucoma.

8. Write a note on staining procedures for identification of microbiological organisms.
9. Write a note on fluorescein staining and its uses.
10. Write short notes on Aqueous humour.
11. List down extra ocular muscles.
12. Write short note on corneal transparency.

Part C

(4 × 10 = 40)

Answer any **four** questions.

13. Draw and label anatomy of the eye.
14. Explain in detail fungal infections of the eye.
15. Explain in detail various route of drug administration.
16. Presbyopia-signs symptoms and management.
17. Explain process of sterilisation.
18. Write a note on conjunctival degeneration
 - (a) Pingecula
 - (b) Pterygium
 - (c) Bitots spot.

C-4377

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93312

DIPLOMA EXAMINATION
OPHTHALMIC TECHNIQUES
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
REFRACTION
(Upto 2015 onwards)

Duration : 3 Hours

Maximum : 70 Marks

Part A

(5 × 2 = 10)

Answer **all** questions.

1. What is a pinhole in Refraction?
2. Name any two formula for intra ocular lens calculation of power.
3. Name the drugs used for
 - (a) Cycloplegia Refraction
 - (b) Refraction in age less than five years.
4. Define Snellens law of refraction.
5. What are the types of contact lens?

Part B

(4 × 5 = 20)

Answer any **four** questions.

6. Write short notes on prism.
7. Explain components of visual acuity.

8. Write short note on naturalization method and lensometer.
9. Write short note on A. scan.
10. Write short note on
 - (a) Confrontation
 - (b) Bjerrum screen.
11. Write short note on (IPD) Inter Pupillary Distance.
12. Write short note on Hitogmalism.

Part C

(4 × 10 = 40)

Answer any **four** questions.

13. Explain in detail about lens vision Aid.
14. Explain different methods of Retinoscopy.
15. Write down prescription along with other parameters for following in 48 years old male
Acceptance
Rt eye (Distance) – 0.5 sph
Lt eye (Distance) +0.5 sph
Addition +2.0 sph.
16. Explain in detail about any two Jackson cross agender, maddon rod, snellens chart.
17. Write about sturms conoid.
18. Intraocular lens power calculation.

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DIPLOMA EXAMINATION
OPHTHALMIC TECHNIQUES
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
EYE DISEASE AND OPHTHALMIC PRACTICE
(Upto 2015 Batch)

Duration : 3 Hours

Maximum : 70 Marks

Part A

(5 × 2 = 10)

Answer **all** questions.

1. Hordeolum.
2. Pterygium.
3. Diurnal variation.
4. Hypopyon.
5. Zonular cataract.

Part B

(4 × 5 = 20)

Answer any **four** questions.

6. Write in detail about divergent squint.
7. Write about ophthalmia neonatorum.
8. Write about scleritis.

9. Explain chemical injuries in detail.
10. Explain sympathetic ophthalmia.
11. Write about optic atrophy.
12. Explain provocative tests for glaucoma.

Part C

(4 × 10 = 40)

Answer any **four** questions.

13. Write about trachoma in detail.
 14. Explain iridocyclitis.
 15. Write in detail about bacterial keratitis.
 16. Explain primary angle closure glaucoma.
 17. Explain hypertensive glaucoma.
 18. Explain the types of optic neuritis.
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