

C-6866

Sub. Code

93311

DIPLOMA EXAMINATION, APRIL 2022.

Non - Semester

Ophthalmic Techniques

FUNDAMENTAL SCIENCE

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is direct and consensual reflex?
2. Write the dimensions of cornea.
3. Write the structures visible at the angle of anterior chamber.
4. Write the nerve supply of extraocular muscles.
5. Name the grades of BSV.
6. What is amplitude of accommodation?
7. Name two gram positive bacteria.
8. What is stratum opticum? Write few lines on it.
9. Name two culture media.
10. Draw and label the lacrimal system.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about Aqueous humor drainage.
- Or
- (b) Write in detail about staining.
12. (a) Write about virus and its types.
- Or
- (b) Write in detail about strength and dose of drug.
13. (a) Write the Ocular changes during the process of Accommodation.
- Or
- (b) Write about viral conjunctivitis.
14. (a) Write the anatomy of vitreous.
- Or
- (b) Write about Pharmacokinetics in detail.
15. (a) Explain the grades of BSV.
- Or
- (b) Write the anatomy of cornea.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write about general Route of drug administration.
- Or
- (b) Explain the nerve arrangement in visual pathway.

17. (a) Write about fungi in detail.

Or

(b) Write about uvea and its blood supply.

18. (a) Explain the factors affecting corneal transparency.

Or

(b) Write about specimen collecting methods in detail.

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Sub. Code

93312

DIPLOMA EXAMINATION, APRIL 2022

Non-Semester

Ophthalmic Techniques

REFRACTION

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Visual angle
2. Diffraction
3. Presbyopia
4. Any two applications of interference
5. IPD
6. Laws of refraction
7. Principles of B and L Keratometer
8. Therapeutic uses of prism
9. Define low vision
10. Vestibulo – oculo reflex

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Aniseikonia and its treatment.
Or
(b) Lens neutralization in Manual lensometer.
12. (a) Visual fields and its scotoma.
Or
(b) Stand Magnifier.
13. (a) Hydrogel lens materials.
Or
(b) Indications of CL.
14. (a) Optical aberrations of eye.
Or
(b) Parameters of CL.
15. (a) Accessories of trial case.
Or
(b) Right eye $\bar{0}.75$ sphere and $\bar{1}.25$ cylinder @ 90° with acuity 6/9 and left eye $\bar{1}.00$ sphere and $\bar{1}.75$ cylinder @ 90° with acuity 6/12. Write prescription.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Cardinal points of lens.
Or
(b) Soft CL fitting.

17. (a) JCC.

Or

(b) Visual acuity charts in childrens above 5 yrs.

18. (a) Aphakia and its treatment.

Or

(b) Types of retinoscope and explain its procedures.

C-6868

Sub. Code

93313

DIPLOMA EXAMINATION, APRIL 2022

Non-Semester

Ophthalmic Techniques

EYE DISEASE AND OPHTHALMIC PRACTICE

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the muscles affected in III CN palsy?
2. What is AV pattern?
3. Mucopurulent discharge.
4. What is pinguecula?
5. How will you differentiate scleritis and Episcleritis?
6. Fungal Keratitis management
7. SICS
8. LRCS
9. Bupthalmus
10. Management of burns in eyes.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Chalazion.

Or

(b) Dacryocystitis.

12. (a) Types of Conjunctivitis.

Or

(b) Vernal conjunctivitis.

13. (a) Episcleritis.

Or

(b) Hypopyon Ulcer.

14. (a) Blue dot cataract.

Or

(b) Secondary Cataract.

15. (a) Congenital Glaucoma.

Or

(b) POAG.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Retinitis Pigmentosa.

Or

(b) Nuclear Cataract - Stages and treatment.

17. (a) Endophthalmitis.

Or

(b) Pterygium.

18. (a) Trachoma - Types and Management.

Or

(b) Ocular emergencies and its management.

C-6869

Sub. Code

93314

DIPLOMA EXAMINATION, APRIL 2022

Non-Semester

Ophthalmic Techniques

OPTOMETRIC INSTRUMENTS

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Near Vision Chart.
2. Pleasure of corneal curvature.
3. What is cobalt blue filter?
4. Difference between static and kinetic perimeter.
5. Grades of B and V.
6. Surgical forceps.
7. Name the types of IOL.
8. What is cobalt blue filter?
9. RAF ruler.
10. Retinoscopy principle.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Principles of Tonometer.

Or

(b) Different types of surgical instruments in detail.

12. (a) Explain A Scan.

Or

(b) Detail on streak retinoscope.

13. (a) Distant Vision Charts in detail.

Or

(b) Near Vision Charts in detail.

14. (a) Uses and drawbacks of Keratometer.

Or

(b) Simple microscope in detail.

15. (a) Hess Screen Chart in detail.

Or

(b) Glaucoma Surgery Instruments in detail.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the illumination techniques in slit lamp.

Or

(b) Explain about various types of sutures.

17. (a) Write about Gonioscope.

Or

(b) Write about Javal Schiotz Keratometer.

18. (a) Retinoscopy in detail.

Or

(b) Ophthalmoscope in detail.
