

CP-9802

Sub. Code

93311

DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Ophthalmic Techniques

FUNDAMENTAL SCIENCE

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Toxicology.
2. Chemotherapy.
3. What is anaesthetic?
4. Give the nerve supply and blood supply of Lacrimal apparatus.
5. Define Lirubus.
6. Name the colour vision defects.
7. Mention the types of stereopsis.
8. Define culture methods.
9. Give example for enrichment media.
10. Write the parts of microscope.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Anti viral drugs.

Or

(b) NSAID.

12. (a) Physiology of accommodation.

Or

(b) Draw the visual pathway (Only diagram).

13. (a) Draw the structure and types of flagella.

Or

(b) Write the characters of fungi.

14. (a) Aqueous humour formation of drainage.

Or

(b) Gross anatomy of vitreous.

15. (a) Give the origin, course and insertion of EOM.

Or

(b) Factors affecting IOP.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write different types of routes of drugs administration in ocular.

Or

(b) Explain ocular diagnostic drugs.

17. (a) Dynamics of blinking.

Or

(b) Anatomy of angle of anterior chamber.

18. (a) Explain about anatomy of bacteria and draw the neat diagram.

Or

(b) Write about corneal and conjunctival sample collection.

CP-9803

Sub. Code

93312

DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Ophthalmic Techniques

REFRACTION

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Snell's Law.
2. Write down the Index of different media of eye.
3. Define Concave lens.
4. Define Visual Acuity.
5. Define Blindness.
6. Define Objective Refraction.
7. Define Dioptre.
8. Define Emetropia.
9. Write about Pinhole.
10. Define magnification.

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Uses of prisms.

Or

(b) Uses of perimeter.

12. (a) Write about 'Keratometer'.

Or

(b) Write about 'A-Scan.

13. (a) Write about optical Aids in Low Vision.

Or

(b) Write about Non-optical Aids in Low Vision.

14. (a) Write a note on soft contact lens fittings.

Or

(b) Write a note on Rigid contact lens fitting.

15. (a) Jackson cross Cylinder.

Or

(b) Snellen chart.

Part C**(3 × 10 = 30)**Answer **all** questions.

16. (a) Myopia

Or

(b) Astigmatism.

17. (a) Write about subjective Refraction.

Or

(b) Write about Image formation by spherical and Cylindrical Lens.

18. (a) Write about 'Lensometer' construction and use.

Or

(b) Write about 'IPD' Measurement.

CP-9804

Sub. Code

93313

DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Ophthalmic Techniques

EYE DISEASE AND OPHTHALMIC PRACTICE

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Paralytic squint.
2. Saline wash.
3. IOP measure.
4. Antiviral drugs.
5. Spring catarrh.
6. Red cell glaucoma.
7. Fungal keratitis.
8. Zonular cataract.
9. Iritis.
10. PCO.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about ophthalmia neonatorum.

Or

- (b) Write about chemical injury.

12. (a) Explain esotropia & its types.

Or

- (b) Write about scleritis.

13. (a) Write the ocular emergencies.

Or

- (b) Write about glaucomatous atrophy.

14. (a) Write about secondary cataract.

Or

- (b) Write about viral keratitis.

15. (a) Explain bacterial conjunctivitis.

Or

- (b) Write about panophthalmitis.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write about PACG.

Or

- (b) Explain the glaucomatous investigations.

17. (a) Write about pterigium.

Or

(b) Write about endophthalmitis.

18. (a) Explain Retinitis pigmentosa.

Or

(b) Write about senile cataract.

CP-9805

Sub. Code

93314

DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Ophthalmic Techniques

OPTOMETRIC INSTRUMENTS

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Role of silk suture.
2. Name the Bacterial stains in microbiology.
3. Filters used in slit lamp.
4. Plane mirror effect in retinoscope.
5. Armstrong Goggles.
6. Glucometer.
7. JCC.
8. Amblyoscope.
9. Types of IOL.
10. SRK I formula.

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Write about Bjerrum screen.

Or

(b) Write about RAF ruler.

12. (a) Explain Applanation tonometer.

Or

(b) Write about streak retinoscopy.

13. (a) Write the types of Visual acuity charts available.

Or

(b) Write procedure of JCC.

14. (a) Write the duochrome test procedure.

Or

(b) Write about gonioscope.

15. (a) Explain differences between direct and indirect ophthalmoscope.

Or

(b) Write the procedure of Prism bar cover test.

Part C**(3 × 10 = 30)**Answer **all** questions.

16. (a) Write about phacoemulsification surgery.

Or

(b) Explain the optics of direct ophthalmoscope.

17. (a) Write about Hess Screen.

Or

(b) Write about B and L keratometer.

18. (a) Explain the types of perimeter.

Or

(b) Write about the parts of Slit lamp biomicroscope.

CP-9806

Sub. Code

93311

DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Ophthalmic Techniques

FUNDAMENTAL SCIENCES

(Upto 2015 Batch)

Time : 3 Hours

Maximum : 70 Marks

Part A

(5 × 2 = 10)

Answer **all** questions.

1. What is anaesthetic?
2. Define staining.
3. Toxicology.
4. Chemotherapy.
5. Give the nerve supply and blood supply of lacrimal apparatus.

Part B

(4 × 5 = 20)

Answer any **four** questions.

6. Physiology of accommodation.
7. Anti viral drugs.
8. Draw the structure of lacrimal system.

9. Physiology of corneal transparency.
10. Aqueous humour formation and drainage.
11. Extra ocular muscles and its action.
12. Anatomy of vitreous.

Part C

(4 × 10 = 40)

Answer any **four** questions.

13. Write different types of routes of drugs administration in eye.
 14. Write about corneal and conjunctival samples collection.
 15. Draw and explain of visual pathway.
 16. Factors affecting IOP.
 17. Draw and label the Anatomy of orbit.
 18. Draw the structures and types of flagella.
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CP-9807

Sub. Code

93312

DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Ophthalmic Techniques

REFRACTION

(Upto 2015 Batch)

Time : 3 Hours

Maximum : 70 Marks

Part A

(5 × 2 = 10)

Answer **all** questions.

1. Define dioptrio power.
2. What is retinoscopy?
3. Keratometer.
4. What is contact lens?
5. What is virtual image?

Part B

(4 × 5 = 20)

Answer any **four** questions.

6. Myopia and its classification.
7. Write short notes on contact lens fitting.
8. Hypermetriopa and its treatment.

9. Astigmatism and its correction.
10. Presbyopia and its correction.
11. Non optical aids in low vision.
12. Short notes on snellen's chart.

Part C

(4 × 10 = 40)

Answer any **four** questions.

13. Explain Jackson cross cylinder.
 14. Explain keratometry.
 15. Prism and its use in ophthalmology.
 16. What is IPD? How do you measure IPD?
 17. Define low vision and also write notes on optical and non optical aids of low vision.
 18. What is myopia? Classify myopia and write methods of correction.
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CP-9808

Sub. Code

93313

DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Ophthalmic Techniques

EYE DISEASE AND OPHTHALMIC PRACTICE

(Upto 2015 Batch)

Time : 3 Hours

Maximum : 70 Marks

Part A

(5 × 2 = 10)

Answer **all** questions.

1. Episclerities.
2. Hypopyon.
3. Ectropion.
4. Trichiasis.
5. Blepharities.

Part B

(4 × 5 = 20)

Answer any **four** questions.

6. Short notes on Dacryocystorhinostomy.
7. Hordeolum Internum and its treatment.
8. Briefly explain investigation of glaucoma.

9. Short notes on chemical injuries.
10. Pterygium and its treatment.
11. Amblyoscope and its uses.
12. Extra ocular foreign body and its treatment.

Part C

(4 × 10 = 40)

Answer any **four** questions.

13. Describe Diabetic retinopathy and treatment.
 14. Explain classification of cataract and its management.
 15. Blepharites and various types.
 16. List out various ocular injuries and its treatments.
 17. Describe dacryocystitis and its managements.
 18. Detailed notes on Endophthalmitis and its managements.
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CP-9809

Sub. Code

93314

DIPLOMA EXAMINATION, NOVEMBER 2018

Ophthalmic Techniques

**OPHTHALMIC INSTRUMENTATION AND
MAINTENANCE**

(Upto 2015 Batch)

Time : 3 Hours

Maximum : 70 Marks

Part A

(5 × 2 = 10)

Answer **all** questions.

1. Tonometer.
2. Give two cataract surgical instruments name.
3. R F-Ruler.
4. Types of sutures.
5. Amblyoscope.

Part B

(4 × 5 = 20)

Answer any **four** questions.

6. Name two instruments used in glaucoma surgery and its uses.
7. Gonioscope and its uses.
8. Types of sutures and its uses.

9. Slit lamp and its uses.
10. How to record blood pressure?
11. Retinoscopy and its types.

Part C

(4 × 10 = 40)

Answer any **four** questions.

12. Describe Maddox rod.
13. Explain Snellens chart.
14. Notes on ophthalmoscope and its types.
15. Describe keratometer and its types, principle and usage.
16. Synaptophore and its uses.
17. Describe Slit lamp and various illuminations.
