

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write briefly on coats of the eye .
2. Write short note on aqueous humour production.
3. Anatomy of orbital medial wall
4. Describe the principle of Snellens chart.
5. Confrontation method of visual field test.

II. Short answers

10 X 3 = 30 marks

6. Mention uses of prism in ophthalmology.
8. Mention laws of refraction
9. Write short note on Ishihara chart.
10. Describe clinical features of Aphakia.
11. Homatropinesulphate
12. Mention the layers of Cornea.
13. Anatomy of lacrimal sac.
14. A-scan biometry.
15. Astigmatic fan.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Enumerate the indication and contra indication of contact lenses.
2. What is ametropia? and mention various method of correction of ametropia.
3. Write briefly on Phakiciols.
4. Describe the importance of evaluation of colour vision.
5. Write briefly on static perimetry.

II. Short answers

10 X 3 = 30 marks

6. Photochromic lenses.
7. Amblyoscope.
8. Simple transposition of lenses.
9. Designs of bifocal lenses.
10. Define low vision and mention its causes.
11. Write short note on Spectacle magnifier.
12. Snellens acuity charts.
13. Convergence.
14. Signs and symptoms of refractive errors.
15. Storage of contact lenses.

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe briefly on contents of orbit
2. Short note on extra ocular muscles and their innervation.
3. Short note on different visual perceptions
4. Keratometry
5. Describe Emmetropia with suitable diagram.

II. Short answers

10 X 3 = 30 marks

6. Role of cycloplegics in refraction.
7. Write short note on TRIAL LENSES and accessories.
8. Management of unioocular Aphakia.
9. Short note on aqueous humour dynamics.
10. Mention various parts of uveal tissue and their functions.
11. Short note on anatomy of crystalline lens.
12. Write briefly on evaluation for near vision.
13. Short note on convergence.
14. Mention various optical aberrations.
15. Duochrome test.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Binocular single vision.
2. Myopia, clinical features and optical corrections.
3. Management of Aphakia.
4. Optical aberrations.
5. Evaluation of near vision.

II. Short answers

10 X 3 = 30 marks

6. Lantren test.
7. What are the objectives for colour vision evaluation?
8. Near visual acuity.
9. Field of vision.
10. Regular astigmatism.
11. Pseudo isochromatic plates.
12. Progressive lenses.
13. Convergence.
14. Near vision complex.
15. Tinted glasses.

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write short note on compartments of the eye.
2. Enumerate the layers of retina.
3. Acuity charts
4. Write briefly on myopia.
5. Write briefly on production and drainage of tear film

II. Short answers

10 X 3 = 30 marks

6. Spherical aberration.
7. Suspensory ligament of lens.
8. Classification of astigmatism.
9. Cycloplegic refraction and its indications.
10. Short note on physiology of vision.
11. Autonomic innervation of the eye .
12. Correction of near vision.
13. Jackson cross cylinder and its uses.
14. Write briefly on ocular movements.
15. Short note on accommodation and its anomalies.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Enumerate the theories of colour vision.
2. Mention various methods of measuring inter pupillary distance.
3. Correction of hypermetropia.
4. Spectacle correction in children.
5. Short note on soft contactlenses

II. Short answers

10 X 3 = 30 marks

6. Spectacle lens material
7. Anomalies of Accommodation
8. Visual acuity.
9. Presbyopia.
10. Toric lenses.
11. Foci meter.
12. Metal frames.
13. LASIK.
14. Stand magnifier.
15. Electronic low vision devices.

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe visual pathway with neat diagram
2. Write on contrast sensitivity.
3. Write briefly on intra ocular pressure and its importance.
4. Write briefly on defective colour vision.
5. Cranial nerves of the eye.

II. Short answers

10 X 3 = 30 marks

6. Subjective refraction.
7. Write briefly on alternative methods of refraction.
8. Convergence and its anomalies.
9. Short note on various lenses used in ophthalmology
10. Lensometer.
11. Neutralisation of lenses.
12. Convex lenses and their uses
13. Short notes on bony orbital boundaries.
14. Orbital fascias and importance.
15. Spotretinoscopy.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Automated perimetry
2. Hand held msgnifier.
3. Management of astigmatism.
4. Chromatic aberrations
5. Surgical management of refractive errors

II. Short answers

10 X 3 = 30 marks

6. Enumerate advantages and disadvantages of Telescope used in the management of low vision.
7. Stereopsis.
8. Ishihara plates.
9. Binocular single vision.
10. Contact lens fitting.
11. Cosmetic contact lenses.
12. Tran position of lenses.
13. Pin hole testing.
14. Pathological myopia.
15. Anisometropia.

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Draw a neat diagram of Eye lid and write functions of orbicularis oculi and LPS.
2. Enumerate the layers of tear film and its functions.
3. Describe Methods of visual field evaluation.
4. Describe optical systems of the eye.
5. Describe paediatric refraction.

II. Short answers 10 X 3 = 30 marks

6. Trial frame and its uses.
7. Synaptophore.
8. Presbyopia.
9. Short note on near vision correction.
10. Name the bones involved in formation of orbit.
11. Duochrome test.
12. Mention alternate methods of estimating once refraction
13. Mention the stages of retinoscopy.
14. What is the importance of normal tear film.
15. Enumerate the boundaries of anterior chamber of the eye.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Mention the advantages and disadvantages of rigid gas permeable contact lenses.
2. Surgical correction of presbyopia.
3. Mention various tests for binocular single vision.
4. Finger confrontation test for visual field.
5. Anomaloscope.

II. Short answers 10 X 3 = 30 marks

6. Short note on near vision charts.
7. Mixed astigmatism.
8. Mention non optical devices for low vision .
9. Correction of pathological myopia.
10. Indications of contact lenses.
11. Neutralisation method of estimating lens power.
12. Emmetropia.
13. Mention types of spectacle lenses.
14. Pediatric spectacle prescription.
15. IPD and its importance.

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1 . Anatomy of orbit
- 2 . IOP measurement and its importance
- 3 . Visual field testing
- 4 . Prism and their applications / Alternative methods of estimation of refraction
- 5 . Myopia

II. Short answers 10 X 3 = 30 marks

- 6 . Difficulties in retinoscopy
- 7 . Mention primary colours
- 8 . Chalazion
- 9 . Near vision correction
10. Laws of reflection
11. Trial set and its accessories
12. Jackson's cross cylinder and its uses
13. Complications of pathological Myopia
14. Causes of ptosis
15. Objective retinoscopy

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1 . Testing visual acuity in all age groups
- 2 . Techniques of automated perimetry
- 3 . Various types and designs of prescription of lenses
- 4 . Draw a neat labeled diagram of visual pathway with brief explanation
- 5 . Distant visual acuity chart

II. Short answers 10 X 3 = 30 marks

- 6 . Pin hole testing
- 7 . Interpretation of colour vision chart
- 8 . Symptophore
- 9 . High index lenses
10. Advantages of contact lens in aphakic patients
11. UV filters lens
12. Uses of spectacles
13. Differences between convex and concave lenses
14. Anomolies of binocular single vision
15. Amblyopia

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 .Anatomy of bony orbit
- 2 . Physiology of vision /Cycloplegia in refraction
- 3 . Protection and damage of tears
- 4 . Hypermetropia /Strum's conoid
- 5 . Retinoscopy /subjective verification of refraction

II. Short answers

10 X 3 = 30 marks

- 6 . Entropion
- 7 . Laws of refraction
- 8 . Difficulties in retinoscopy
- 9 . Duochrome test
10. Types of visual perception
11. Automated perimeter /Loss of ocular motility
12. Uses of convex lens
13. Disadvantages of aphakia
14. Layers of tear film
15. Atropine

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Describe visual acuity.What is the meaning of 6/60 snellen's chart ?
- 2 . Procedure of estimating visual field
- 3 . Optical aberration of eye
- 4 . Discuss centering
- 5 . Explain the technique to find the power and axis of cylinder

II. Short answers

10 X 3 = 30 marks

- 6 . Bifocals
- 7 . Notations for recording visual acuity
- 8 . Uses of bandage contact lens
- 9 . Lenses used in spectacles
10. Types of Myopia
11. Diplopia
12. Accomodation and convergence
13. Applications of low visual aids
14. Transposition of toric lenses
15. Identification of lenses types and determination of its power

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Cross section of upper eyelid
- 2 . Drainage of aqueous humour
- 3 . Ocular movements
- 4 . Uses of various mirrors in ophthalmology / Contents of orbit
- 5 . Types of astigmatism

II. Short answers

10 X 3 = 30 marks

- 6 . Types of blepharitis
- 7 . Trichiasis
- 8 . schrimmer test
- 9 . Near vision charts
10. Uses of prism
11. Fogging technique
12. Astigmatic fan
13. Uses of cylindrical lens
14. A-scan
15. Grades of binocular single vision

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . How to write prescription format
- 2 . Describe the types and management of Myopia
- 3 . Contact lenses and its indications
- 4 . Refractive surgeries
- 5 . Advantages of executive bifocal lenses

II. Short answers

10 X 3 = 30 marks

- 6 . Multifocals
- 7 . Name the tests used to check binocular single vision
- 8 . Complications of contact lens use
- 9 . What is simple transposition of lenses for -2Dspherical
10. -1.0 cylindrical at 90 degrees
11. Methods of correction of aphakia
12. Antireflection coating
13. Parts of spectacles
14. Intraocular refractive surgeries
15. Visual acuity test in children

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Anatomy of lacrimal apparatus
- 2 . Colour vision
- 3 . Uses of concave, convex and cylindrical lens
- 4 . Presbyopia
- 5 . Blepharitis

II. Short answers

10 X 3 = 30 marks

- 6 . Symblepharon
- 7 . Epiphora
- 8 . Indications of dacryocystectomy
- 9 . Convergence
10. Postcycloplegic test
11. Standard notation of axis of cylinder
12. Keratometry
13. 3 cases of lacrimation
14. Types of astigmatism
15. Emmetropia – definition and diagram

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . How do you do neutralization of lense?
- 2 . Defects of colour vision and their importance
- 3 . Various types of spectacle frames
- 4 . Low visual aids and its applications
- 5 . Physiological optics and management of presbyopia

II. Short answers

10 X 3 = 30 marks

- 6 . Frisby test
- 7 . LASIK
8. Contraindications for contact lenses
- 9 . Write the prescription for a patient aged 40 yrs presbyopia with normal distant vision
10. Treatment options for hyperopic patient
11. Anisometropia
12. Accomodation
13. Photochromic lenses
14. Uses of permeable contact lens
15. Disadvantages of spectacles

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Structure of eyeball
- 2 . Binocular single vision
- 3 . Optical system of eye
- 4 . Aphakia
- 5 . Practice of retinoscopy

II. Short answers

10 X 3 = 30 marks

- 6 . Ectropion
- 7 . Layers of tear film
- 8 . Accomodation
- 9 . Trial frame
10. Confrontation visual field testing
11. Ishihara's chart
12. Uses of concave lens
13. Glands of eyelid
14. FRIEND test
15. Emmetropia

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Transposition of lenses
2. Making and fitting of spectacles
3. Advantages and disadvantages of contact lens
- 4 . Physiological optics and managementof presbyopia
- 5 . List differences between bifocal and multifocal lenses

II. Short answers

10 X 3 = 30 marks

- 6 . Interpupillary distance and its importance
- 7 . Phakic IOL
- 8 . Anomalies of accommodation and convergence
- 9 . Worth's 4 dot test
10. 2 uses of contact lens over spectacles
- 11.Various methods of correction of Myopia
12. Lantern test
13. Techniques of static perimetry
14. Spherocylindrical lenses
15. Stereoacuity test

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Explain about surgical spaces in orbit
- 2) Explain about the principles & uses of snellen's visual acuity chart & near vision chart.
- 3) Explain about the prisms & their application in ophthalmology.
- 4) Describe about various errors of refraction with diagrams.
- 5) Describe about the cycloplegics used for refraction.

II. Short answers

10 X 3 = 30 marks

- 6) Write about the principles of keratometry
- 7) What are the layers of cornea?
- 8) What are the layers of tear film along with its importance?
- 9) Explain about the laws of reflection & refraction.
- 10) Uses of different lenses in ophthalmology.
- 11) What are the various types of astigmatism?
- 12) Explain about binocular single vision.
- 13) Uses of A-Scan
- 14) Different tests for color Vision
- 15) Indications of cycloplegics.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 Neutralisation of lens
- 2 Prisms
- 3 Visual acuity testing
- 4 Low vision Aids
- 5 Transposition of Lenses

II. Short answers

10 X 3 = 30 marks

- 6 Conditions causing with movement on retinoscopy with plane mirror at 1 meter
- 7 Mention the alternatives to spectacles in correction of myopia
- 8 Indications for cycloplegics in refraction
- 9 Uses of cylindrical lenses
- 10 Materials used for ophthalmic lenses.
- 11 Protective glasses
- 12 Low vision aids [Name 3 instruments]
- 13 Name 3 instruments required to measure squint
- 14 Name 3 uses of direct ophthalmoscope
- 15 Low vision Assessment

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Explain about optical system of normal eye.
- 2) Explain about keratometry & A-Scan.
- 3) Explain about production & drainage of tears.
- 4) Write about optics of retinoscopy.
- 5) Explain about ocular movements.

II. Short answers

10 X 3 = 30 marks

- 6) What are the layers of retina?
- 7) Describe about types of tonometry.
- 8) How to infer the results of sac syringing.
- 9) How to correct myopia and hypermetropia.
- 10) Name the surgical spaces of orbit
- 11) Explain the pathway of aqueous drainage.
- 12) What is fogging technique?
- 13) Write about presbyopia management.
- 14) Importance of intraocular pressure.
- 15) What is post-cycloplegic testing?

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 Snellens visual acuity chart
- 2 Retinoscopy
- 3 How to dispense spectacles?
- 4 What is focimeter ?
- 5 Progressive spectacles advantages and disadvantages

II. Short answers

10 X 3 = 30 marks

- 6 Maintenance of contact lenses
- 7 Symptoms of uncorrected refractive error
- 8 Tinted lenses
- 9 Cross cylinder
- 10 Types of vision chart
- 11 Fogging test
- 12 Importance of pinhole
- 13 Methods to check field of vision
- 14 Types of colour vision defects
- 15 Tested for binocular vision

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 Anatomy of eyelids
- 2 Physiology of vision
- 3 Retinoscopy – principles, types
- 4 Biometry
- 5 Discuss about perimetry

II. Short answers

10 X 3 = 30 marks

- 6.Confrontation test
- 7.Fogging technique
- 8.Vision chart
9. Drainage of aqueous
- 10.Intraocular pressure
11. Layers of eye
12. Autorefractrometer
- 13.Cycloplegics - indications
14. Inferring sac syringing
15. Types of tonometer

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 Maintenance of contact lenses
- 2 Trial set
- 3 Compare RPG lenses with soft lenses
- 4 Instruments used for fitting and checking the power of spectacles
- 5 Uses of synaptophore

II. Short answers

10 X 3 = 30 marks

- 6 Maintenance of synaptoplore
- 7 Near vision testing
- 8 Lens neutralization
- 9 Cylindrical lenses
- 10 Name types of progressive lenses
- 11 Diagnostic uses of contact lenses
- 12 Stenoptic slit
- 13 Fogging test
- 14 Jackson's cross cylinder
- 15 Protective glasses

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 Anatomy of cornea
- 2 Anatomy of lacrimal apparatus
- 3 Retinoscopy
- 4 Physiology of vision
- 5 Accommodation

II. Short answers

10 X 3 = 30 marks

- 6 Importance of tear film
- 7 Tomometry
- 8 A- Scan
- 9 Fogging technique
- 10 Lacrimal drainage
- 11 Myopia & hypermetropia
- 12 Convergence
- 13 Lenses in ophthalmology
- 14 Colour vision testing
- 15 Streak retinoscopy

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Various methods of neutralization of lenses
2. Optical condition for with movement with plane mirror on retinoscopy at 1 meter
3. Pseudomyopia
4. Ophthalmoscope
5. Various types of retinoscopes Add a note on maintenance of streak retinoscope

II. Short answers

10 X 3 = 30 marks

6. Vision testing
7. Cylindrical lenses uses
8. Maddox rod
9. Types of aphakic correction
10. Lens neutralization
11. Types of Bifocal lenses
12. Uses of spherical lenses
13. Define Astigmatism
14. Contraindications for use of contact lenses
15. Name three near vision charts

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Prisms & applications in ophthalmology.
- 2) Anatomy of lacrimal apparatus.
- 3) Retinoscopy
- 4) Formation & drainage of aqueous humor
- 5) Lenses in ophthalmology

II. Short answers

10 X 3 = 30 marks

- 6) Formation of tear & importance of tear film
- 7) Types of retinoscopy
- 8) Post mydriatic testing
- 9) Cycloplegics indications
- 10) Drainage of tears
- 11) Principles of snellen's chart
- 12) Uses of fluorescein staining
- 13) Uses of keratometer
- 14) Principle & uses of pin hole
- 15) Uses of prisms

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 Colour vision
- 2 Refractive errors
- 3 Visual acuity testing
- 4 Spectacles
- 5 Refractive surgeries

II. Short answers

10 X 3 = 30 marks

- 6 Ametropia
- 7 Anisometropia
- 8 IPD measurement and its importance
- 9 Photochromatic lenses
- 10 Contact lenses – 3 advantages and disadvantages
- 11 Accommodation
- 12 Name 3 refractive surgeries
- 13 Tests for refractive surgeries
- 14 Convergence
- 15 Presbyopia

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Describe the anatomy of the eyelid with a neat labelled diagram.
2. Explain the mechanism of Aqueous humour formation. Add a note on its drainage.
3. Define visual acuity. How do you check for distance vision?.
4. What is binocular single vision? Name components of binocular single vision.
5. Define myopia? How do you correct Myopia?

II. Short answers 10 X 3 = 30 marks

6. Lacrimal syringing and its importance.
7. Self illuminating retinoscope .
8. Uses of convex lenses.
9. Ishihara s chart.
10. Trial set.
11. Define squint.write a note on cover test.
12. Define laws of refraction .
13. Name layers of tear film. How is it important?
14. Pin hole.
15. Factors responsible for corneal transparency.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Explain the method of doing confrontation testing.
2. What is Aphakia?Methods to Correct Aphakia .
3. Write a note on Transpositioning of lens.
4. Low visual aids.
5. Contact Lenses :- Advantages and Disadvantages

II. Short answers 10 X 3 = 30 marks

6. How to test Near vision? Name charts to test Near Vision.
7. Types of bifocal.
8. Types of Spectacle frames- material
9. Write on presbyopic correction.
10. Write about Synaptophore – uses .
11. Difference between Spectacles and Contact lens.
12. Types of Contact lenses.
13. What are the Charts used for Color vision testing.
14. 3 causes for no improvement in color vision.
15. What are high index lenses? What are its uses?

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Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Describe the Anatomy of lacrimal apparatus with a neat labeled diagram.
2. Define Visual Acuity. How do you test for near and distance Vision?
3. What is Retinoscopy? Mention Principles of Retinoscopy.
4. What is Visual Field? What are the various methods to check Visual Field?
5. Define Emetropia. Name the various Refractive errors of the Eye.

II. Short answers 10 X 3 = 30 marks

6. Mention drugs used in Refraction.
7. What is Hypermetropia? How do you correct it?
8. What is the Normal Intra Ocular Pressure? How do you Check IOP?
9. Name various tests to detect defective color vision.
10. Write Short Note on Streak Retinoscope.
11. Pin hole.
12. What is Accommodation? Mention its components.
13. Irregular Astigmatism.
14. Trial Set.
15. Laws of Refraction.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Explain the method of testing distant visual acuity.
2. Reliable indices of Humphrey field Analysis.
3. Ishihara color vision testing.
4. Method of testing Binocular vision.
5. What is presbyopia? Write note on presbyopic correction.

II. Short answers 10 X 3 = 30 marks

6. Name 3 charts to test near vision.
7. Methods to Correct Aphakia .
8. What is Bifocals? Types of Bifocals.
9. What is ametropia? Causes of Ametropia.
10. Write about Transpositioning of lens.(simple + toric).
11. Uses of Contact lenses. 3 dangers of contact lenses.
12. Correction of anisometropia.
13. Types of stereoacuity tests.
14. What pin hole testing? 3 causes for No improvement.
15. Methods of Low visual aids.

**PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY**

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the Anatomy of Cornea. With a neat labelled diagram.
2. Mention the Components of lacrimal Apparatus. Add a note on Lacrimal Syringing.
3. Define Visual Acuity. What are the tests to check distance vision?
4. What is Retinoscopy? Write a note on its Principles.
5. Define Astigmatism. What are the types and How do correct it?

II. Short answers

10 X 3 = 30 marks

6. What are Color Vision? Name tests to detect Color Vision defect.
7. Tonometry
8. Accommodation.
9. Uses of Concave Lenses.
10. Self-illuminating Retinoscope.
11. Uses of Cycloplegics in Refraction.
12. Maddox Rod.
13. Define Strabismus or squint. What is Cover test?
14. Name the Layers of Tear film and its Importance.
15. Visual Field tests.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What are Bifocals? Types of Bifocals.
2. What is Accommodation? How do you measure accommodation? Anomalies of accommodation. 1+1+2
3. Contact lenses. Indications and contraindications 2+2
4. Methods of testing color vision charting.
5. How do you test distant visual acuity?

II. Short answers

10 X 3 = 30 marks

6. Name 3 types of Near vision charts.
7. Write about simple transposition.
8. How to do confrontation testing and Whats testing by doing it?
9. Tests done to check binocular vision.
10. Presbyopia correction – How much with age?
11. What is low visual aids ? Different methods.
12. 3 methods to Correct aphakia.
13. Mention advantages and disadvantages of aphakia
14. Write short notes on tinting of spectacles.
15. What is pin hole testing? Write 3 causes for no improvement in pinhole testing.

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the Anatomy of the eye with a neat labelled diagram.
2. Write a note on How cornea is maintained transparent.
3. What are the various muscles involved in ocularmovements, add a note on its nerve supply.
4. Define Myopia. How do you correct it?
5. What is Normal Intra Ocular Pressure? How do you check IOP?

II. Short answers

10 X 3 = 30 marks

6. Principle of pin hole testing.
7. What is Normal Visual Field? What are the various methods to record visual field?
8. Presbyopia.
9. Trial Set.
10. Ishihara chart.
11. Irregular Astigmatism.
12. Name the Layers of Tears Film. What is its importance?
13. Methods to check near vision.
14. Snellen's chart and it uses.
15. What is Prism? Where is it used?

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write a note on neutralization of spectacle lenses.
2. Write a note on defects in colour vision and their importance.
3. What is progressive lens. What are the types of progressive lenses .advantages of progressive lenses
4. What is anisometropia ? what are the causes for Anisometropia?
5. What is pin hole testing ? method of doing pin hole testing .write the causes for visual improvement in pin hole testing .

II. Short answers

10 X 3 = 30 marks

6. Write 3 methods to correct aphakia
7. What are the types of bifocals?
8. Contact lenses- mention 2 indications and 2 dangers for the same
9. Mention 3 components measured using synaptophore.
10. What are different materials available for spectacle fitting ?
11. What are the uses of photochromatic lenses?
12. What are advantages and disadvantage of using spectacles?
13. What is automated perimetry. Name 2 programs in the same
14. What are high index lenses .when are they used.
15. Describe distance vision testing .

**PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY**

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write Short note on Anatomy of the Cornea. Mention three causes for a clear cornea.
2. What is normal IOP? What is its importance, how do you check IOP?
3. Mention laws of refraction. Where is it applied in the Eye?
4. Mention the causes of Aphakia. How do you correct it?
5. What is Retinoscopy? What is Objective correction?

II. Short answers

10 X 3 = 30 marks

6. Prism and its uses.
7. Types of Visual field test.
8. Write a short note on tear film.
9. What is Astigmatism? Name the types of Astigmatism.
10. Streak Retinoscope.
11. Mention the names of various Ocular Muscles involved in movement of the Eye with it's Nerve supply.
12. Trial Set.
13. Ishihar's Chart.
14. What is Hypermetropia? What are the various methods to correct Hypermetropia?
15. Cover test.

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is pin hole testing ? method of doing pin hole testing .write the causes for no visual improvement in pin hole testing .
2. Write a short note on pinhole testing.
3. What are tinted lenses? Name their uses.
4. How do you test field of vision?
5. What is LASIK? Write 3 indications and 3 contraindications of LASIK.

II. Short answers

10 X 3 = 30 marks

6. Note on presbyopic correction.
7. Mention advantages and disadvantages of contact lenses
8. Write a note on low visual aids.
9. Mention 3 components measured using Synaptophore.
10. Mention 3 types of contact lenses.
11. Mention 3 methods to correct aphakia.
12. Describe distance vision testing
13. Write a note on toric transposition of lenses
14. Advantages and disadvantages of progressives.
15. Mention 3 anomalies of accommodation.

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Write briefly on Clinical features and management of ophthalmic neonatorum.
2. Write briefly on management of Corneal foreign body.
3. Mention Causes of acute red eye.
4. Management of hordeolum interna.
5. Enumerate the causes of watering of eye.

II. Short answers 10 X 3 = 30 marks

6. Bitot's spots.
7. Allergic conjunctivitis.
8. Magnitude of cataract blindness.
9. Clinical features of Orbital cellulitis.
10. Enumerate the complications of hyper mature cataract.
11. Mention any three ophthalmic emergencies.
12. Short note on ocular injury.
13. Acute dacryocystitis.
14. Write briefly on preoperative local ophthalmic investigation.
15. Define cataract and mention types of cataract.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Write short note on classification of glaucoma.
2. Mention various methods of recording intra ocular pressure.
3. Enumerate the causes of vit A deficiency.
4. Assessment of visual field.
5. Binocular diplopia.

II. Short answers 10 X 3 = 30 marks

6. Lens induced glaucoma
7. Ocular changes in anaemia.
8. Diabetic retinopathy.
9. Corneal opacity.
10. Ocular movements.
11. Cover test.
12. Esotropia.
13. Ocular changes in hypertension.
14. Metabolic cataract.
15. Occlusion therapy.

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write briefly on classification of cataract
2. Causes of Vitamin A deficiency.
3. First aid in ocular chemical injury.
4. Causes of sudden loss of vision.
5. Biometry.

II. Short answers

10 X 3 = 30 marks

6. Nuclear cataract.
7. Chalazion
8. Conservative management of cataract
9. Lacrimal syringing.
10. Iridocyclitis
11. Automated perimetry.
12. Intra ocular pressure.
13. Causes of eye discharge.
14. Orbitalcellulitis
15. Systemic investigation in cataract surgery.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Management of amblyopia.
2. Paralytic strabismus.
3. Write briefly on measurement of intra ocular pressure.
4. Metabolic cataract
5. Clinical features of chronic simple glaucoma.

II. Short answers

10 X 3 = 30 marks

6. Prevention of Xerophthalmia.
7. Medical management of glaucoma.
8. Pseudostrabismus.
9. Exotropia.
10. Stereo acuity tests.
11. Diabetic maculopathy.
12. Describe nerve supply of extra ocular muscles.
13. Automated perimetry.
14. What is the significance funduscopy during refraction?
15. Eye changes in anaemia.

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Enumerate the causes of acute red eye and management of any one.
2. Describe signs and symptoms of senile cataract.
3. Describe manifestation of chemical injury.
4. WHO classification of manifestations of vit A deficiency
5. Write a short note on aetiological classification of conjunctivitis.

II. Short answers 10 X 3 = 30 marks

6. Hordeolum externa.
7. Importance of funduscopy in the management of Glaucoma.
8. Tear film.
9. Clinical features of Pan ophthalmitis.
- 10 Write briefly on prevention of Ophthalmia neonatorum
11. Trachoma
12. Enumerate the causes of corneal opacity.
- 13 Enumerate the causes of painless loss of vision.
14. Intra ocular pressure.
15. Mention the advantages of phaco emulsification cataract surgery.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Peri metry.
2. Timolol maleate.
3. Nonparetic strabismus.
4. Amblyopia.
5. Enumerate dermatological conditions with ocular findings.

II. Short answers 10 X 3 = 30 marks

6. Secondary glaucoma.
7. Schiotz tonometry.
8. Static perimetry.
9. Corneal edema.
10. Hypertensive retinopathy.
11. Ocular myasthenia.
1. Bitots spots.
13. Dry eye.
14. Schirmer test .
15. Blind spot.

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. D/D of night blindness.
2. Describe methods of cataract surgery.
3. Indications of dancryo-cysto-rhinostomy.
4. Importance of posterior segment evaluation in cataract surgery.
5. Allergic conjunctivitis.

II. Short answers

10 X 3 = 30 marks

6. Types of intra ocular lenses.
7. Intra capsular cataract surgery.
8. Xerophthalmia.
9. Chalazion
10. Post operative optical correction of aphakia.
11. Pseudophakia
12. Chemical injury.
13. After cataract.
14. Mention any three causes of Red eye.
15. Lacrimal syringing.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Signs and symptoms of Incomitantsqint.
2. Enumerate the causes of night blindness.
3. Anomalies of binocular vision.
4. Aplanation tonometry.
5. Senile cataract.

II. Short answers

10 X 3 = 30 marks

6. Diabetic retinopathy.
7. Causes of Amblyopia.
8. Mannitol in glaucoma.
9. Heterophoria.
10. Maddox rod.
11. Anaemic retinopathy.
12. Causes of Concomitant strabismus
13. Medical therapy of angle closure glaucoma.
14. Absolute glaucoma.
15. Intra ocular pressure.

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Management of corneal aberrations.
2. Enumerate the functions of vitamin A.
3. Describe the management of acute conjunctivitis.
4. Episcleritis.
5. Traumatic cataract.

II. Short answers

10 X 3 = 30 marks

6. Management of Epiphora.
7. Ophthalmia neonatorum.
8. First aid in ocular injury.
9. Orbital cellulitis.
10. Management of senile cataract.
11. Second sight.
12. Mention any three causes of ocular pain.
13. What is glaucoma and what are the parameters to be considered to diagnose a case of glaucoma?
14. Stages of cataract.
15. Chronic dacryocystitis.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Indentation tonometry.
2. Anaemic retinopathy.
3. Classification of secondary glaucoma.
4. Ocular manifestation of viral infections.
5. Paralytic strabismus

II. Short answers

10 X 3 = 30 marks

6. Ocular features of diabetes .
7. Aqueous drainage.
8. Management of vitA deficiency
9. Binocular movements.
10. Primary deviation.
11. Occlusion therapy.
12. Toxic retinopathy.
13. Comment on Tear film composition .
14. Eye in-hypertention.
15. Mention causes of blindness .

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Eye manifestations of vit-A deficiency
- 2 . Fungal corneal ulcer
- 3 . Interpretation of lacrimal syringing
- 4 . Ocular manifestations of diabetes mellitus
- 5 . Define glaucoma . How to perform schiot's tonometry?

II. Short answers

10 X 3 = 30 marks

- 6 . Types of SRK formula
- 7 . Types of tonometer
- 8 . Three drugs used in treatment of corneal ulcer
- 9 . Posterior blepharitis
- 10 . Lacrimal syringing proper method and interpretation
- 11 . Types of cataract
- 12 . 3 features of orbital cellulitis
- 13 . Panophthalmitis
- 14 . Clinical features of orbital cellulitis
- 15 . First aid management of chemical injuries

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Visual field changes in primary open angle glaucoma
- 2 . What are the components of binocular single vision ?How to assess the same?
- 3 . Types of squint
- 4 . Classification and treatment of vit-A deficiency
- 5 . Describe the classification of diabetic retinopathy

II. Short answers

10 X 3 = 30 marks

- 6 . Xerosis
- 7 . Hypertensive retinopathy gradings
- 8 . Importance of IOP
- 9 . Classify amblyopia
- 10 . Non cataract tonometry
- 11 . Pseudosquint
- 12 . Lens induced glaucoma
- 13 . Sources of vit-A
- 14 . Gonioscopy
- 15 . Classification of NPDR

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1 . Ophthalmia neonatorum
- 2 . Name few ocular emergencies, first aid and indications of ocular emergencies
- 3 . Classify and describe briefly treatment of primary open angle glaucoma
- 4 . Pre-op investigations in patient undergoing cataract surgery
- 5 . Dacrocystitis

II. Short answers 10 X 3 = 30 marks

- 6 . Types of corneal opacity
- 7 . Types of hypermature cataract
- 8 . Name 3 causes of night blindness
- 9 . Write indications and contraindications of mannitol
- 10 . Mention types of steroid in ophthalmology
- 11 . Local anaesthetics used on ophthalmology
- 12 . Spring cataract
- 13 . Prevention and management of vit-A deficiency
- 15 . Mention causes of diplopia

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1 . Optic disc changes in primary open angle glaucoma
- 2 . What is amblyopia?
- 3 . Describe the manifestations of vit-A deficiency
- 4 . What are the ocular changes in diabetic mellitus?
- 5 . Describe the fundus changes in HTN

II. Short answers 10 X 3 = 30 marks

- 6 . Schiottz tonometry
- 7 . Uses of synoptophore
- 8 . Classify squint
- 9 . Uses of mannitol in ophthalmology
- 10 . 3 causes of diplopia
- 11 . Side effects of acetazolamide
- 12 . Management of vit-A deficiency
- 13 . Treatment of angle closure glaucoma
- 14 . Atropine and its uses
- 15 . Classify glaucoma

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Acute bacterial conjunctivitis
- 2 . What is chemical injuries in eyes?First aid given to such patients
- 3 . Diagnosis and management of pterygium
- 4 . Types of anaesthesia used in cataract surgery
- 5 . How do you diagnose and treat acute lacrimal abscess?

II. Short answers

10 X 3 = 30 marks

- 6 . Stages of corneal ulcer
- 7 . WHO classification of vit-A deficiency
- 8 . Diabetic retinopathy
- 9 . Classification of glaucoma
10. Treatment of fungal corneal ulcer
11. Uses of glycol in ophthalmology
12. Mention some antiviral drugs used in ophthalmology
13. Name cycloplegic drugs used in refraction
14. Uses of pilocarpine
15. Cover test

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Classify glaucoma .Briefly describe treatment of angle closure glaucoma
- 2 . Describe paralytic squint
- 3 . Prevention of management of vit-A deficiency
- 4 . Describe classification of diabetic retinopathy
- 5 . Grading of hypertensive retinopathy

II. Short answers

10 X 3 = 30 marks

- 6 . Maddox rod
- 7 . Methods of recording IOP
- 8 . fundus changes in diabetes mellitus
- 9 . WHO classification of vit-A deficiency
10. Contraindications for use of mannitol
11. Cover test
12. Smblyopia
13. 3 antiglaucoma drugs
14. Uses of mydriatics
15. 3 cycloplegic drugs used in refraction

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Discuss trachoma stages and management
- 2 . Discuss causes of acute red eye
- 3 . What is amblyopia? How can it be prevented?
- 4 . How do you manage a case of corneal ulcer?
- 5 . Describe the symptoms, signs and treatment of dacryocystitis

II. Short answers

10 X 3 = 30 marks

- 6 . Childhood cataract management
- 7 . Lacrimal patency test
- 8 . Drugs used in acute angle closure glaucoma
- 9 . Methods used for recording IOP
10. Fundus changes in hypertension
11. Anti glaucoma drugs
12. Cover test
13. Differences between mydriatics and cycloplegics
15. Maddox rod and Maddox wing

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . What are the triad for the diagnosis of primary open angle glaucoma?
- 2 . Types of amblyopia
- 3 . Xerophthalmia
- 4 . Fundus changes in hypertensive retinopathy
- 5 . Describe the ocular changes in diabetic retinopathy

II. Short answers

10 X 3 = 30 marks

- 6 . Indentation tonometry
- 7 . Classification of diabetic retinopathy
- 8 . Triad for the diagnosis of primary open angle glaucoma
- 9 . Surgical procedures for glaucoma
10. 3 drugs used to treat glaucoma
11. 3 instruments used to record glaucoma
12. vit-A prophylaxis
13. Contraindication for IV mannitol
14. Uses of pilocarpine eye drops
15. Restrictive squint

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Discuss types of conjunctivitis and management
- 2 . Discuss ocular trauma,its prevention,first aid and treatment
- 3 . Iritis
- 4 . Chalazion
- 5 . Discribe the procedure of cataract surgery

II. Short answers

10 X 3 = 30 marks

- 6 . Prevention of spread of conjunctivitis
- 7 . Importance of proper management of corneal ulcer
- 8 . Seriousness and urgency of management of corneal ulcer
- 9 . Biometry
10. Post operative spectacle correction
11. Post operative care and followup of cataract surgery
13. Xerosis
14. Causes of shallow anterior chamber
15. IOL power calculation

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Methods of measurement of IOP
- 2 . What is cover test ?Mention its significance
- 3 . Causes of amblyopia in children
- 4 . WHO classification of xerophthalmia
- 5 . Grading of hypertensive retinopathy

II. Short answers

10 X 3 = 30 marks

- 6 . Vit - A prophylaxis
- 7 . Contraindications for IV mannitol
- 8 . Schiontz tonometer
- 9 . Gonioscopy
10. Stages of diabetic retinopathy
11. Mention extra ocular muscles
12. Maddox wing
13. Causes of shallow anterior chamber
14. Timolol eyedrops
15. Occlusive therapy

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1.Explain about the stages of maturation of cataract
- 2.Clinical features and management of bacterial corneal ulcer
- 3.Write a note on acute congestive glaucoma
- 4.Write a note on Vernal Keratoconjunctivitis
- 5.Signs and symptoms of Anterior uveitis

II. Short answers

10 X 3 = 30 marks

- 6.What are the ocular signs of chemical injury?
- 7.Classification of cataract
- 8.Ocular signs of Vitamin A deficiency
- 9.Definition of cataract
- 10.Types of corneal ulcer
- 11.Signs of acute congestive glaucoma
- 12.What are the measures to be taken to prevent the spread of conjunctivitis?
- 13.Causes of sudden loss of vision
- 14.Preoperative work up of cataract patient
- 15.Types of intraocular lenses used after cataract surgery

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Define amblyopia . what are its subtypes?
2. What is paralytic squint ? mention 4 causes.
3. Mention the clinical features of xerophthalmia and explain.
4. What is diabetic retinopathy and what are changes seen on fundoscopy ?
5. What is hypertensive retinopathy ? what are its retinal changes?

II. Short answers

10 X 3 = 30 marks

6. Cover uncover test
7. Name the structures forming AC angle
8. Gonioscopy
9. Write in short about exotropia
10. Draw fundus picture of moderate to severe diabetic retinopathy
11. Types of retinal detachment
12. Draw diagram of optic disc changes in POAG and label them
13. What is OCT and write 3 conditions where OCT is done
14. What are 3 grades of binocular single vision ?
15. Exotropia.

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Classification of cataract and preoperative preparation for cataract patient
2. Write a note on Herpes Zoster ophthalmicus
3. Clinical features and management of Blepharitis
4. Clinical features of chronic dacryocystitis. Explain in stages.
5. What are the causes of Epiphora and clinical evaluation of watering eye

II. Short answers 10 X 3 = 30 marks

6. Blepharitis
7. Define glaucoma
8. Clinical features of orbital cellulitis
9. What is panophthalmitis?
10. Indications of cataract surgery
11. What are the investigations to be done before cataract surgery?
12. Clinical features of bacterial corneal ulcer
13. What is chalazion?
14. What is the importance of sac syringing before cataract surgery?
15. How to diagnose a cataract?

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. What is diabetic retinopathy and classify it . How is PDR treated ?
2. Define glaucoma , types , treatment of PACG.
3. Name 5 instruments used to check IOP
4. Write in brief about worth's 4 dot test
5. Visual field defects in glaucoma .

II. Short answers 10 X 3 = 30 marks

6. Duochrome test
7. Name 5 subtypes of lens induced glaucoma
8. WHO classification of xerophthalmia
9. Name 5 instruments used to check IOP
10. BSV -3 grades
11. Indications and principle of trabeculectomy
12. Heterotropia
13. What is paralytic squint?
14. Define blood pressure . grade hypertensive retinopathy
15. Vit A prophylaxis

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write a note on Panophthalmitis
2. Clinical features of orbital cellulitis and management
3. Types of intraocular lenses and post operative management of cataract patients
4. Write a note on fungal corneal ulcer
5. Procedure of Lacrimal sac syringing and importance

II. Short answers

10 X 3 = 30 marks

6. What is uveitis?
7. Clinical features of conjunctivitis
8. Post operative care of cataract patients
9. Ocular signs of fungal corneal ulcer
10. What is Emsley Fincham stenopeic slit test?
11. Procedure of sac syringing
12. Causes of panophthalmitis
13. What is dacryocystitis?
14. What are the types of cataract surgery?
15. What is meibomitis?

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is xerophthalmia? classify Vit A prophylaxis
2. Write in short about following test done in
3. Glaucoma – pachymetry, visual field, OCT.
4. Name 5 different class of drugs used to reduce IOP in glaucoma
5. What is lens induced glaucoma ? name different types of LIG . Discuss any one

II. Short answers

10 X 3 = 30 marks

6. Draw NPDR fundus picture
7. Draw grade 2 hypertensive retinopathy fundus
8. Classify glaucoma
9. Exotropia
10. Retinal detachment and its types
11. 3 grades of BSV
12. Define amblyopia
13. Gonioscopy
14. Name AC angle structure
15. Draw normal fundus picture

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

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Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Clinical features of chemical (acid and alkali) injury to eye and mention about the first aid management for the same
2. Clinical features and management of acute congestive glaucoma
3. Trichiasis
4. Mention about types of cataract surgery and different types of intraocular lenses
5. Write a note on pterygium

II. Short answers

10 X 3 = 30 marks

6. What are the clinical features of cataract?
7. What are the ocular manifestations in diabetic patients?
8. Zonular cataract
9. Types of corneal opacities
10. Trichiasis
11. What is chalazion?
12. First aid management of chemical injuries
13. What is external hordeolum?
14. Causes of watering in eye
15. What are corneal signs in Vit A deficiency?

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is hypertensive retinopathy and what are retinal changes?
2. Mention the clinical features of xerophthalmia and explain
3. Mention uniocular and binocular eye movements
4. Draw schematic diagram of anaesthesia machine and write colour coding for different gases
5. Name 5 instruments used to check IOP

II. Short answers

10 X 3 = 30 marks

6. Name 5 subtypes of lens induced glaucoma
7. Write indication and principle of trabeculectomy
8. Mention which glasses are prescribed for a refractive error patient
9. Mention different reflexes seen in retinoscopy
10. Optic disc changes POAG
11. Name 4 causes of paralytic squint
12. What is OCT, Write 3 conditions where OCT is done
13. Write types of retinal detachment
14. Write in short about exotropia
15. What are 3 grades of binocular single vision

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

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Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Classify cataract, Preoperative work up of cataract patient
2. Entropion
3. Chronic dacryocystitis
4. Clinical features and management of Anterior uveitis
5. Write a note on Bacterial conjunctivitis

II. Short answers

10 X 3 = 30 marks

6. What is entropion and ectropion?
7. What are types of cataract?
8. Mention relevant systemic and local investigations for cataract surgery?
9. Schirmers test
10. Causes of redness of eyes
11. Types of corneal vascularisation
12. What is acute congestive glaucoma?
13. What is pseudopterygium?
14. What is pingecula?
15. Signs and symptoms of viral conjunctivitis?

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Define and classify glaucoma
2. Mention names of uniocular and binocular eye movements
3. What is binocular single vision ? what are 3 grades of BSv
4. What is diabetic retinopathy ? what are the changes seen on funduscopy
5. What is hypertensive retinopathy ? what are fundus changes seen in chronic hypertensive patients

II. Short answers

10 X 3 = 30 marks

6. Name the structures forming AC angle
7. Optic disc changes in POAG
8. Cover test
9. What are the subtypes of amblyopia?
10. Xerophthalmia, write the dosage of vitamin A given
11. 4 causes of paralytic squint
12. Visual fields in glaucoma
13. Define amblyopia
14. What is trabeculectomy?
15. Write about isotropia

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

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- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Write briefly causes of corneal Ulcer. How do you investigate a case of Corneal Ulcer?
2. What are the causes of Red Eye? How do you diagnose a case of Acute congestive glaucoma?
3. Classify Mechanical Injuries. How do you manage a case of Chemical Injury?
4. Write the steps of Cataract Surgery.
5. Name rich sources of Vitamin 'A'. Mention various methods adapted to prevent Vitamin 'A' deficiency.

II. Short answers 10 X 3 = 30 marks

6. What is HordeleumExterna (Stye)? How do you manage?
7. Write a short note on Acute Iritis.
8. Name few Organisms causing ophthalmicneonatorum.
9. What is Panophthalmtis?
10. How do you correct Aphakia?
11. How do you diagnose hyper mature Cataract?
12. Name few Ocular Emergencies.
13. Write Short note on Drug induced Cataract.
14. How do you remove foreign body on the cornea?
15. Chalazion.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Define Glaucoma .Describe optic nerve head changes in glaucoma.
2. What are the symptoms and signs of vitamin A deficiency?
3. Discuss the management of diabetic retinopathy.
4. Define squit. Mention types of squit.
5. Describe visual field testing.

II. Short answers 10 X 3 = 30 marks

6. Mention the grades of hypertensive retinopathy.
7. What is the prophylaxis of vitamin A deficiency?
8. Classification of primary angle closure glaucoma
9. Name 3 antiglaucoma medications with dose and dosage.
10. What is the Treatment of diabetic macular odema?
11. Name the prerequisites for development of Binocular single vision
12. Write 3 methods for estimation of Angle deviation
- 13 What are Synergists muscles? Give one example for the same.
- 14.How to sterilize Applanation tonometry?
- 15.How to prevent blindness due to diabetic retinopathy?

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write a briefly the post-Operative care for a patient who has undergone cataract surgery.
2. What is cornealulcer? What are the stagesand how doyou investigate a case of corneal ulcer.
3. Name few causes of chemical injury. How do you manage a case of Chemical Injury in a Village.
4. What is Night Blindness? How do you diagnose Vitamin 'A' deficiency.
5. What is Dacryocystitis? Write a note on its management.

II. Short answers

10 X 3 = 30 marks

6. What are the preventive measures taken to prevent spread of conjunctivitis?
7. Name few complications of cataract surgery.
8. Fluorescein Staining and it's uses.
9. Define Glaucoma. How do you check IOP in camp?
10. Write a note on Blepharitis.
11. Atropine
12. Vernal Catarrh.
13. Biometry
14. Chalazion
15. Write a note on prevention of Diabetic Retinopathy.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Abnormalities of binocular vision.
2. Describe the visual field changes in glaucoma .
3. Treatment of vitamin deficiency.
4. Difference between concomitant and incomitantsquit.
5. Describe different groups of antiglaucomamedications .Give one example for each group.

II. Short answers

10 X 3 = 30 marks

6. Classify Diabetic retinbopathy.
7. Write a brief note on cover and uncover tests.
8. What are yoke muscles .give one example.
9. What are 3 grades of Binocular single vision.
10. Classify primary angle closure glaucoma.
11. Write a note on vitamin A prophylaxis.
12. What are the types of tonometry.
13. What is Amblyopia ?mention any 3 types of amblyopia.
14. What is Normotensive glaucoma ?mention 3 causes for normotensive glaucoma.
15. How do you assess for binocular single vision?

**PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY**

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

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Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. What is Ophthalmia Neonatorum? Which are the organism causing ophthalmia Neonatorum, How do you manage?
2. What are Alkalis which cause damage to Eye? What are first aid measures given to prevent penetration of the chemical?
3. What are the causes of red eye? Write a note on management of acute conjunctivitis.
4. Define Cataract. What are stages of Cataract? How do you manage?
5. What are Pre-operative precautions to be taken before cataract surgery?

II. Short answers 10 X 3 = 30 marks

6. Write brief note on lacrimal syringing.
7. Define Glaucoma. How do you classify?
8. Name few drugs which cause cataract. How do you prevent development of cataract?
9. What is orbital cellulitis?
10. Write briefly about the stages of Vitamin 'A' deficiency.
11. What is dacryocystitis? How do you diagnose.
12. What are the various methods to treat perforated corneal ulcer.
13. Fluorescein staining and its uses.
14. Write short note on Management of Iritis.
15. Write briefly about early complications following cataract surgery.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Define glaucoma. Define tonometry. Mention different types of tonometry.
2. Classify diabetic retinopathy.
3. What are the signs and symptoms of vitamin A deficiency?
4. Examination of EOM -versions and ductions.
5. Write a note on abnormalities of binocular vision.

II. Short answers 10 X 3 = 30 marks

6. Write the pathological sequelae of an extraocular muscle palsy.
7. Grades of hypertensive retinopathy.
8. Name 3 antiglaucoma medications.
9. What are the methods to test visual fields.
10. Grades of angle on gonioscopy.
11. Mention 3 grades of binocular single vision.
12. Name 3 complications after Nd-YAG peripheral iridotomy.
13. What are the risk factors for development of diabetic retinopathy?
14. What are antagonists? Give one example.
15. Write 3 differences between concomitant and incomitant squint?

**PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY**

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. Define cataract. How do you classify? How do you manage an immature cataract?
2. Write briefly complications of corneal ulcer. How do you prevent perforation?
3. What are the stages of Vitamin 'A' deficiency? Define briefly the management of vitamin 'a' deficiency.
4. How do you prevent spread of conjunctivitis?
5. What is Epiphora? What are the causes of epiphora?

II. Short answers 10 X 3 = 30 marks

6. Classify injuries of the eye. Name few preventive measures to be taken to prevent injuries of the eye.
7. Define Glaucoma. What are the investigations to detect Glaucoma ?
8. Management of chalazion.
9. What are the causes for sudden painful loss of vision?
10. What is epilation?
11. What are the causes of red eye? write a note on its diagnosis.
12. Define Panophthalmitis. How do you manage?
13. How do you screen for diabetic retinopathy in a camp?
14. What is allergic conjunctivitis.?write a note on signs and symptoms.
15. Management of Aphakia.

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

1. What is Glaucoma ?classify glaucomas.
2. What is Heterophoria ?mention its types.
3. Define binocular single vision.what are 3 grades of binocular single vision?
4. What are the signs and symptoms of vitamin A deficiency?
5. Define glaucoma .describe optic nerve head changes in glaucoma

II. Short answers 10 X 3 = 30 marks

6. Mention 3 visual field defects seen in glaucoma.
7. Mention 3 antiglaucoma drugs.
8. Mention 3 antiglaucoma surgeries.
9. Mention the triad of congenital glaucoma.
10. What are risk factors of POAG?
11. Write 3 differences between concomitant and incomitant squint?
12. Classify diabetic retinopathy.
13. Classify Hypertensive retinopathy.
14. What are synergists? Give one example.
15. What is the treatment of accommodative squint?

PARAMEDICAL BOARD, BENGALURU
OPHTHALMIC TECHNOLOGY

Time: 3.00 HRS

Max Marks:100

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- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper II

Q P CODE: 5163

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Mention various causes of development of Media opacities in eye.
2. Write briefly the management of post operative care to be given to the patient after cataract surgery.
3. What is corneal Ulcer? What are stages, How do you diagnose a case of corneal ulcer?
4. Name few causes for Night blindness.write a note on prevention of vitamin A deficiency.
5. What is chemical injury? How do you treat a man coming from village for emergency first aid, following chemical injury.

II. Short answers

10 X 3 = 30 marks

6. Chalazion and its management.
7. What is conjunctivitis? What are preventive measures to be taken to prevent spread of infection?
8. Name few complications of cataract surgery .
9. What is lacrimal syringing? How do you do lacrimal syringing?
10. Uses of fluorescein.
11. Atropine.
12. Define glaucoma ?what are various methods to check intra ocular pressure?
13. What is blepharitis.write a note on clinical features.
14. What is iritis ?
15. Write a note on vernal catarrh?

Subject: Paper II

Q P CODE: 5164

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is glaucoma ? classify primary angle closure glaucomas.
2. What is vitamin A deficiency. Write a note on prophylactic treatment for the same.
3. Classify diabetic retinopathy. Mention treatment modalities.
4. Define binocular single vision.what are 3 grades of binocular single vision?
5. Write the differences between concomitant and incomitant squint?

II. Short answers

10 X 3 = 30 marks

6. Name a beta blocker . what are the side effects of beta blockers?
7. Mention 3 antiglaucoma surgeries.
8. Write a note on diabetes and eye diseases.
9. What are risk factors of POAG.
10. Mention the triad of congenital glaucoma.
- 11.What are yoke muscles . give one example.
- 12.What is tonometry? What are the types of tonometry?
- 13.Mention 3 visual field defects seen in glaucoma.
- 14.Describe EOM movements.
15. Describe optic nerve head changes in glaucoma