

BSc  
Optometry  
IV

JAN-2024

**BLDE (DEEMED TO BE UNIVERSITY)**

**B.Sc. in Optometry**

[Time: 3 Hours]

[Max. Marks: 80]

**IV SEMESTER**

**PAPER - I (Optometric Optics I & II)**

**QP CODE: 8440**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Explain About Monofocal, Bifocal, Trifocal Lenses , Advantages And Disadvantages Of Multifocal Lenses

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Hand Neutralization Of Lenses
3. Inter Pupillary Distance
4. Critical Angle And Total Internal Reflection
5. Aspheric Lenses
6. Lensometer
7. Progressive Lens Fitting
8. Vertex power calculation
9. Advantages Of Pal
10. Properties of prisms

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Snells Law
12. Dispersion
13. Vertex Distance
14. Sag Formula
15. Pantoscopic Tilt
16. Types Of Glazing
17. Tinted Lens
18. Abbe Value
19. Fresnel Prism
20. Recumbent Prism
21. High Refractive Index Glass

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**IV SEMESTER**

**PAPER II - (Ocular Diseases II & Glaucoma)**

**QP CODE: 8441**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Write about the clinical features and management of Central Retinal Vein Occlusion.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Anterior ischemic optic neuropathy.
3. Optic Neuritis
4. Visual field changes in Glaucoma.
5. Fundus changes in hypertensive retinopathy
6. Congenital Glaucoma.
7. Chemical Injuries.
8. Normal tension glaucoma.
9. Age related macular degeneration.
10. Congenital cataract.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Three types of retinal vein occlusion.
12. Name three antiVEGF drugs.
13. Name three causes for papilloedema.
14. Name three signs of intraocular foreign body.
15. Name the types of optic atrophy
16. Write six causes for vitreous haemorrhage.
17. Write three types of IOL
18. Write three drugs used for glaucoma.
19. Name three signs of optic neuritis.
20. Write the structures of angle of anterior chamber.
21. Name three causes for amourotic light reflex.

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**PAPER III - (Dispensing Optics)**

**QP CODE: 8442**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Explain different types of ophthalmic filters and tints.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. What are the various measurements required to fit a progressive lens?
3. IPD and its importance.
4. Optical density.
5. Advantages of high index lenses.
6. Write about Aspheric lenses.
7. Write about spectacle verification.
8. Trifocals.
9. Pantoscopic and retroscopic tilt.
10. Lens and frame markings.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. List uses of industrial safety glasses
12. Advantages of progressive glasses.
13. List any two pliers with its uses.
14. Trivex.
15. Refractive index.
16. How is Near IPD measured?
17. Abbe value.
18. How does geometric centre and optic centre differ
19. Recumbent spectacles.
20. Three uses of convex lenses.
21. Crest angle

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**IV SEMESTER**

**PAPER - IV (Optometric Instrumentation)**

**QP CODE: 8443**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. What is the principal of visual acuity testing? Describe the Snellen chart and Bailey – lovie chart

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Goldman applanation tonometer.
3. Colour vision testing devices
4. Trial box and its contents.
5. Write about pupillometer
6. Refractometer
7. Corneal topography
8. Lensometer
9. Instrumentation of Schiottz tonometer
10. Difference between direct and indirect ophthalmoscope.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. List three non-optical devices
12. Name the filters present in slit lamp and its use
13. Give three uses of prism in ophthalmology.
14. Indications for B scan
15. List three indications for ERG
16. Potential acuity meter
17. Errors while performing A-scan
18. Types of retinoscopy
19. Charts used for vision testing in children
20. Principle of fundus camera.
21. Name the types of perimetry
22. Define extended keratometer

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**IV SEMESTER**

**PAPER - V (Basic & Ocular Pharmacology)**

**QP CODE: 8444**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Describe in detail about ocular use of corticosteroids and its ocular adverse effects

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Antiglaucoma Medications
3. Topical antibiotics
4. Oral Hypoglycemic Agents
5. Explain About Mast Cell Stabilizers
6. Antiseptics
7. Name Antiviral Drugs Used In Viral Ocular Infections ✓
8. Factors Affecting The Kinetics Of Drug Action
9. Short Notes On Vitamin A
10. Antihypertensives

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Name Various Ocular Routes Of Drug Administration
12. Name 3 antiviral drugs / NAME THREE LUBRICANT EYE DROPS.
13. Name 3 Anticancer Drugs
14. Name 3 Drugs Used For Fungal Infection
15. Cycloplegics
16. Name 3 Antidiuretic Drugs
17. Mention The Uses Of Mannitol
18. Mention The Uses Of Adrenaline
19. Mention The Uses Of Atropine
20. ACE Inhibitors
21. Non-steroidal anti-inflammatory drugs