

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Optometry

[Time: 3 Hours]

[Max. Marks: 80]

III SEMESTER

PAPER - I (Physical Optics)

QP CODE: 8340

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Verifications of Malus's law by using polarizer and analyzer.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Dual nature of light
3. Transverse nature of oscillation
4. Properties of light
5. Birefringence
6. Relationship between amplitude and intensity
7. Explain interference
8. Explain diffraction
9. Scattering of light
10. Explain the spectrum

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Weber's law
12. Applications of laser
13. Radiometry
14. Photoelectric effect
15. Visual acuity
16. Airy disc
17. Fringe width
18. Lambert's law
19. Concept of waves
20. Brewster angle
21. Suspension and colloid

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III SEMESTER

PAPER – II (Geometrical Optics)

QP CODE: 8341

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Discuss newton ring experiment and explain how it is used to determine the wavelength of sodium light?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Nicol prism
3. Visual acuity
4. Electromagnetic spectrum
5. Glare effect
6. Anomalies of accommodation
7. Wave theory of light
8. Zone plate
9. Wedge shaped thin lenses
10. Raman effect

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Double refraction
12. Biquartz
13. Back vertex power
14. Types of vergence
15. Angular magnification
16. Flint glass
17. Dispersion of light
18. Elliptical polarisation of light
19. Jack in the box phenomenon
20. Paraxial approximation
21. Vertex distance

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III SEMESTER
PAPER – III (Visual Optics)
QP CODE: 8342

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define visual acuity discuss in detail various types of visual acuity chart and their applications.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Cardinal points of the eyes
3. Techniques of retinopathy?
4. Pin hole test
5. Presbyopia
6. Method of testing visual acuity in children
7. Axis of eyes
8. Strum's Conoid
9. Snellen's chart
10. Uses of prism in ophthalmology.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Diagnosis of Aphakia.
12. Visual angle.
13. Jackson cross cylinder.
14. Identification of cylinder lens
15. Types of myopia.
16. Vergence.
17. Define Anisometropia.
18. Magnification
19. Null point
20. Latent hypermetropia.
21. Fogging

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III SEMESTER

PAPER – IV (Ocular Disease I)

QP CODE: 8343

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define proptosis. Explain in detail about symptoms, signs and management of thyroid eye disease?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Enophthalmos
3. Blowout fracture
4. Management of dry eye
5. Pterygium
6. Ulcerative keratitis Vs Non- Ulcerative Keratitis
7. Penetrating Keratoplasty
8. Scleritis
9. Cavernous Sinus Thrombosis
10. Classification of dry eye

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Band shaped keratopathy
12. Types of uveitis
13. Define ectropion, entropion, trichiasis
14. Acute dacryocystitis
15. Pingecula
16. Types of ptosis
17. Vitamin A deficiency treatment
18. Keratoglobus
19. What are cells, flare, keratic precipitates
20. Episcleritis Vs scleritis
21. Corneal Dystrophies types

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III SEMESTER

PAPER – V (Clinical Examination & Visual System)

QP CODE: 8344

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Various methods of recording visual acuity for distance and near

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Slit lamp biomicroscopy
3. Retinoscopy
4. Write a note on Keratometer
5. Tonometry
6. Write a note on Schirmer's test, TBUT
7. Stereopsis
8. Anterior chamber depth Assessment
9. Hirschberg test
10. Amsler grid test

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Ishihara chart
12. Confrontation test
13. Causes for sudden painless loss of vision
14. Swinging flash light test
15. Maddox rod
16. Krimsky test
17. ROPLAS Test
18. Superior oblique muscle
19. Cover test
20. Test for contrast sensitivity
21. Fluorescein stain