

BLDE (DEEMED TO BE UNIVERSITY)**B.Sc. in Optometry**

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER**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. Describe spectacle lens manufacturing.

Short Essays: (Any – 8)**5 X 8 = 40 Marks**

2. Selections of frames and lens for high minus powers.
3. Write about Aspheric lenses
4. Symmetrical and asymmetrical progressive designs.
5. Glass versus plastics.
6. Frames for special purposes.
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. How is Near IPD measured?
12. Abbe value.
13. How does geometric centre and optic centre differ?
14. Recumbent spectacles.
15. Optical density.
16. Crest angle
17. Temple construction.
18. Segment height in bifocals.
19. Ptois crutches.
20. Surface faults
21. Difference between hard design and soft design in PAL's.

Jan - 2023.

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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. Explain the normal field of vision. Mention different perimetry techniques. Explain how you do an automated field test in glaucoma.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What are the advantages of Phoropter over trial lens kit.
3. Explain the importance of pupillary assessment and name two disease conditions where it would be useful.
4. Compare Snellen vs logMAR visual acuity.
5. Explain the principle of applanation tonometer. Write its advantage over Schiottz tonometer.
6. Colour vision testing devices.
7. Refractometer.
8. Corneal topography
9. Near vision difficulties with refractor units and trial frames
10. Ultrasound A Scan.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Abberometer
12. Pupillometer.
13. Lens Guages
14. Name some distant vision charts
15. ERG and its indicatons
16. Trial frame designs
17. Mention three methods of examination under slit lamp.
18. Name few distant vision charts.
19. Name instruments used for corneal topography.
20. Name the type of perimeters
21. Types of keretometers.

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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. Local anaesthetics
3. Insulin
4. Blood Coagulants
5. Classify anti-glaucoma drugs.
6. Acyclovir
7. Write about different techniques of giving local anesthetics in eye.
8. Write about adverse drug effects with examples.
9. Fluconazole.
10. Atropine.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write 3 drugs used in diabetes mellites
12. Write three drugs used for hypertension.
13. Name three adverse effects of latanoprost.
14. Name three uses of sodium hyaluronate.
15. Write three adverse effects of acetazolamide.
16. Name three drugs used for fungal keratitis.
17. Name chemotherapeutic drugs used for eyes.
18. Three drugs used in allergic conjunctivitis.
19. Pilocarpine
20. Antioxidant uses in ophthalmology.
21. Dyes used in ophthalmology