

BACHELOR OF OPTOMETRY (B.OPTOM)
SEMESTER -IV EXAMINATION, JUNE-2026
(BOPT401) OPTOMETRIC INVESTIGATIONS

[Time allotted: Three Hours]**[Max Marks: 100]****Note:** Read all the instructions carefully

Answer all questions in serial order. Draw suitable diagrams wherever necessary

Q. 1. Objective type questions: (Attempt All)**(10 x 02 = 20)**

(Very short/ short answer/ MCQ/ One liners/ Fill in the blanks/ True/False)

- a. Refractive index of cornea is
- b. Human color vision is:
 - i. Monochromatic
 - ii. Deuchromatic
 - iii. Trichromatic
 - iv. None of the above
- c. Skiascopy is another name used for.....
- d. Magnification of Direct ophthalmoscopy is 15 times. **(True/ False)**
- e. Near vision is recorded at a distance of:
 - i. 10 cm
 - ii. 25 cm
 - iii. 33 cm
 - iv. 30 cm
- f. CCT is measured using
- g. What is most accurate method of IOP measurement?
- h. Indocyanine Green Dye is used in ocular angiography. **(True/ False)**
- i. Most commonly used formula used for IOL power calculation is.....
- j. What is the nature of image formed in Indirect Ophthalmoscopy?

Q. 2. Short notes/ Short answer type questions (Attempt any Five)**(05 x 04 = 20)**

- a. Write a short note on keratometry. (CO5 PO1)
- b. Write a short note on color vision. (CO5 PO1)
- c. Write a short note on pachymetry. (CO5 PO1, 5)
- d. Write a short note on OCT Macula. (CO5, PO1)
- e. Write a short note on contrast Sensitivity. (CO5 PO1)
- f. Write a short note on regurgitation Test. (CO2 PO1)
- g. Write a short note on specular microscopy. (CO5 PO1)

Q. 3. Structured questions (Attempt any Three)**(03 x 10 = 30)**

- a. Write down Principle of Gonioscopy and name the different types of Gonio lens. (CO5 PO1, 2, 4)
- b. Discuss the different methods of Slit lamp examination. (CO1 PO1, 2)
- c. Discuss the technique and different uses of fluorescein staining in Ophthalmology. (CO2 PO1, 2, 3)
- d. Discuss different types of Perimetry and its clinical significance. (CO5 PO1, 2)

Q. 4. Long Answer/ Essay type questions (Attempt any Two)**(02 x 15 = 30)**

- a. Discuss the role of preoperative B Scan in cataract surgery. (CO5 PO1, 3, 4)
- b. Discuss the principle of vision assessment using Snellen's chart. (CO1 PO1,2,3)
- c. Discuss the clinical test in a case of epiphora. Describe the lacrimal punctum tests. (CO2 PO1, 2,3)