Regn. No. DD…… **Paper Code: 241308**

BACHELOR OF OPTOMETRY (B. OPTOM)
SEMESTER -II EXAMINATION, JUNE-2026

(BOPT204) OPTICS

[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. With movement reflex is neutralized by : (PO1, CO1)
- **i.** Plano lens
- **ii.** Cylindrical lens
- **iii.** Convex lens
- **iv.** Concave lens

b. Myopia is corrected by which lens : (PO2, CO5)
- **i.** Concave lens
- **ii.** Cylindrical lens
- **iii.** Convex lens
- **iv.** None of the above

c. Full form of HFA: (PO1, CO4)
- **i.** Humphrey visual field
- **ii.** Visual field analyzer
- **iii.** Humphrey field analyzer
- **iv.** None of the above

d. Diffraction is the principle of ---------- (PO4, CO2)
e. AR stands for---------- (PO2, CO4)
f. There are 4 compartments in a trial frame. **(True/False)** (PO1, CO1)
g. Uses of FRIEND TEST. (PO4, CO1)
h. Size of a pinhole (PO4, CO1)
i. Diffraction is the principle of pinhole. **(True/False)** (PO4, CO1)
j. Ishihara chart is used for? (PO4, CO1)

Q. 2. Short notes/ Short answer type questions (Attempt any **Five**) **(05 x 04 = 20)**
a. Explain Properties of light. (PO4, CO1)
b. Explain Interference and its application (PO4, CO2)
c. Define the laws of reflection? (PO4, CO2)
d. Define polarization of light. (PO4, CO2)
e. Define optics of human eye. (PO4, CO1)
f. Describe concave lens and its image diagrams. (PO5, CO1)
g. Define emmetropia. (PO1, CO1)

Q. 3. Structured questions (Attempt any **Three**) **(03 x 10 = 30)**
a. Define the myopia and its classification. (PO2, CO3)
b. What is a strums conoid? Explain its image formation with diagram. (PO4, CO3)
c. Describe prism? Explain its uses in ophthalmology. (PO2, CO1)
d. Explain the uses of concave and convex lens in ophthalmology with suitable examples. (PO2, CO3)

Q. 4. Long Answer/ Essay type questions (Attempt any **Two**) **(02 x 15 = 30)**
a. Explain classification of hypermetropia and its correction? (PO2, CO3)
b. Describe various method of assessing visual acuity? (PO2, CO2)
c. Define the manufacturing of various types of spectacle lenses. (PO4, CO3)