

**B.Sc. (Hons.) IN OPTOMETRY AND  
OPHTHALMIC TECHNIQUES (BSCHOT)**

**Term-End Examination**

**June, 2011**

**BOS-008 : DISPENSING OPTICS**

*Time : 3 hours*

*Maximum Marks : 70*

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**PART - A**

Attempt *any four*. Each question carries 10 marks.  $10 \times 4 = 40$

1. Explain the various types of PAL designs. Discuss the advantages and disadvantages of PALs.
2. What is a prism ? Describe its uses in ophthalmology. Explain the various prism notations used.
3. Enlist the various materials used in frame manufacturing. Describe various parts of a frame with the help of a diagram.
4. Enlist the various types of lens materials. Describe the advantages and disadvantages of each.
5. Explain the processes of lens surfacing and glazing.
6. Describe the datum and boxing systems of measurements with the help of suitable diagrams.

## PART - B

Write short note on *any six* of the following. Each contains 5 marks : 6x5=30

1. Advantages of aspheric lens.
  2. Lensometer
  3. Antireflection coating on spectacle lenses.
  4. Difference between CR 39 and Polycarbonate.
  5. Frame selection in high minus and ptosis.
  6. Manufacturing of glass lenses.
  7. Polarised lenses.
  8. Vertex power.
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