

00324

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

**Term-End Examination**

**December, 2011**

**BOS-008 : DISPENSING OPTICS**

*Time : 3 hours*

*Maximum Marks : 70*

---

**PART - A**

Answer *any four*. Each carries **10** marks. **4x10=40**

1. Explain the specifications required while ordering a single vision, Bifocals and Progressive lens.
2. Enlist various types of frame temples. Describe various parts of frame.
3. Describe the principle, working and uses of a lensometer.
4. Discuss the advantages of PAL's over a bifocal or a trifocal lens. Describe the criteria in selection of a frame for fitting a PAL.
5. Explain the various types of spectacle lens materials.
6. Describe in detail the process of surfacing of a glass and a plastic lens. Explain the various defects in manufacturing of glass and plastic lenses.

## PART - B

Write short notes on *any six*. Each carries 5 marks. 6x5=30

1. Prentice rule and Fresnel prisms.
  2. Vertex power.
  3. Datum system of measurement.
  4. Frame selection for high minus lenses.
  5. Geneva lens measure.
  6. Antireflection coating.
  7. Measurement of monocular PD.
  8. Types of bifocals.
-