

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

Term-End Examination

December, 2014

BOS-008 : DISPENSING OPTICS

Time : 3 hours

Maximum Marks : 70

PART - A

Answer **any four** questions. Each carries **10** marks. **10x4=40**

1. Describe the various kinds of lens materials.
2. Define lens surfacing and the steps involved in the process of surfacing.
3. Describe the fitting and dispensing of bifocal lenses with suitable diagrams.
4. Explain the different parts of a frame.
5. Describe the various ways of measuring power of an ophthalmic lens.
6. Define lenticular lenses and explain various types of designs with diagrams.

PART - B

7. Write short notes on **any six** of the following.
Each carries **5 marks.** **5x6=30**

- (a) Faults in Lenses
- (b) Frame selection for children
- (c) Photo Chromatic Lenses
- (d) Boxing System
- (e) Back Vertex Power

Given a Prescription

$$-2.00 / +3.00 \times 90^\circ$$

Base Curve = -6.00 D

- (f) Calculate the final Toric Prescription Front Vertex and Effective Power
 - (g) Types of Prisms
 - (h) Indications and Contra-Indications for Progressive Lenses.
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