

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

**Term-End Examination**

**December, 2010**

**BOS-008 : DISPENSING OPTICS**

*Time : 3 hours*

*Maximum Marks : 70*

- Note :*
- (i) Question paper consists of two Sections A and B.*
  - (ii) Section-A contains 6 questions. Answer any four questions each question carries 10 marks.*
  - (iii) Section-B contains 8 questions. Answer any six each question carries 5 marks.*

**SECTION - A**

Attempt *any four* questions each carries 10 marks :

**4x10=40**

1. Describe in detail about the ophthalmic lens design.
2. What all things should be mention in an ideal prescription ? Write about rules of simple and toric transposition with an example.
3. Describe in detail about various steps of glass and plastic ophthalmic lens manufacturing.
4. Explain in detail about various bifocal and trifocal lenses.
5. Write in detail about the special purpose frames.
6. Define IPD. Describe the method of measurement and write its signification of IPD.

## SECTION - B

7. Write short note on *any six* of the following. Each short note carries 5 marks : **5x6=30**
- (a) Polycarbonate material
  - (b) Frame measurements & markings
  - (c) Photochromatic lenses
  - (d) Spectacle dispensing
  - (e) Power specification for ophthalmic lenses
  - (f) Base curve of ophthalmic lenses
  - (g) Prentice Rule
  - (h) Aspheric Lenses
-