

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

Term-End Examination

June, 2015

BOS-008 : DISPENSING OPTICS

Time : 3 hours

Maximum Marks : 70

PART - A

Attempt **any four** questions. Each carries
10 marks.

1. (a) Write steps of simple transposition. 5+5
(b) Transpose the prescription :
 $+4.00DS / -2.75DC \times 75^\circ$
2. (a) Define PRISM DIOPTRE. 3+7
(b) Write advantages of Fresnel prisms.
3. (a) What are the characteristics of impact resistant lenses ? 5+5
(b) Explain briefly the process of heat tempering.
4. Write in detail the ideal frame characteristics for Progressive Addition Lenses (PAL). 10

5. What do you understand by photochromatic lenses ? Write in detail about various types of photochromatic lenses. 3+7
6. Describe in brief the various steps involved in lens surfacing. 10

PART - B

7. Write short notes on **any six** of the following.
Each carries 5 marks. **5x6=30**
- (a) Anti-fog coating
 - (b) High-index lenses
 - (c) Advantages of Aspheric lens design
 - (d) Ptosis spectacles
 - (e) Pantoscopic tilt
 - (f) Polycarbonate lenses
 - (g) Geneva lens measure
 - (h) Back vertex power
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