

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

Term-End Examination

December, 2013

BOS-008 : DISPENSING OPTICS

Time : 3 hours

Maximum Marks : 70

PART - A

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

1. Explain different forms of lenses.
2. Describe various plastic and metal frame materials.
3. Describe aspheric lens in detail. Explain its advantages and fitting guidelines.
4. Explain the terminology of bifocal. Describe different types of bifocals.
5. Explain the fitting and dispensing of progressive addition lenses.
6. Describe various faults in ophthalmic lenses.

PART - B

7. Write short notes on *any six* of the following. Each carries *five* marks : **5x6=30**
- (a) Sports spectacles.
 - (b) Fresnel press on prism.
 - (c) Impact resistant lenses.
 - (d) Frame selection for progressive addition lens wearer.
 - (e) Antireflection Coatings.
 - (f) Polarizing lenses.
 - (g) Lenticular lens.
 - (h) Write down the transposed form of following prescriptions :
 - (i) $+1.50 \text{ DS} / +1.00 \text{ DC} \times 90^\circ$
 - (ii) $-2.50 \text{ DC} \times 30^\circ$
 - (iii) $+0.75 / -1.00 \text{ DC} \times 70^\circ$
 - (iv) $-1.75 \text{ DS} / -1.00 \text{ DC} \times 150^\circ$
 - (v) $+1.50 \text{ DC} \times 120^\circ$
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