

**B.SC. (HONS.) IN OPTOMETRY & OPHTHALMIC
TECHNIQUES (BSC HOT)**

Term-End Examination

June, 2014

BOS-008 : DISPENSING OPTIC

Time : 3 hours

Maximum Marks : 70

Part-A

Note : Answer *any four* questions. Each carries 10 marks.

1. Describe the important specifications required to order different kinds of lenses. Draw a sample of an order form. 10x4

2. Explain the advantages of aspheric lenses with suitable diagrams.

3. Describe the fitting and dispensing of progressive Addition lenses (PAL's) with suitable diagrams.

4. Explain different types of special purpose frames.

5. Define Pensometry. Describe the principle, steps and sources of error in lensometry

6. (a) Define Prism. Explain its effect on the movement of the eye.

(b) Calculate the prismatic effect induced and the base orientation for the following prescriptions.

(i) -7.00 DS lens decentered 4 mm downward.

(ii) -2.00/-3.00 x 90° is decentered out by 5 mm.

Part - B

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

(a) Geneva lens measure

(b) Frame selection for high minus lenses

(c) Fused bifocals

(d) Impact resistant lenses

(e) Define Transposition

Transpose in toric form

$$-1.00/-4.00 \times 90^\circ \text{ BC} = -6.00 \text{ D}$$

(f) Anti - reflection coating lenses

(g) Lens Verification

(h) Polarizing Lenses

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