

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

Term-End Examination

December, 2013

**BOS-015 : OPTOMETRIC INSTRUMENTS AND
PROCEDURES**

Time : 3 Hours

Maximum Marks : 70

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- Note :** (i) *Attempt any seven questions.*
(ii) *Each carries 10 marks.*
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1. (a) Describe the sources of error in retinoscopy. 5+5
(b) Explain the principle of lensometer, with the help of diagram.

2. Explain the clinical uses of the following : 2x5
 - (a) E.O.G.
 - (b) Pachymetry.
 - (c) PAM
 - (d) Synoptophore.
 - (e) Duchrome Test.

3. Describe the various methods of sterilisation used 10
in ocular surgery. Discuss the advantages of
chemical sterilisation.

4. Differentiate between : 5+5
(a) Topical and Peribulbar anaesthesia.
(b) Applanation and Schiottz tonometry.
5. (a) Describe specular microscopy. Explain its principle. 5+5
(b) Explain the clinical applications of specular microscopy.
6. Explain the principle of Keratometry. Describe the limitations and clinical uses of keratometry. 10
7. Write short notes on : 5+5
(a) Bagolini Striated glass.
(b) LASIK
8. What is the principle of ultrasound ? Differentiate between A-Scan and B-Scan ultrasonography. 10
9. Write short notes on : 5+5
(a) Lees Chart.
(b) Retro-illumination technique of slit lamp.
10. (a) What is corneal topography ? 5x2
(b) Explain the interpretations of corneal topography with the help of example.
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