

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

Term-End Examination

December, 2011

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

Time : 3 hours

Maximum Marks : 70

Note : (i) *Attempt any seven questions.*

(ii) *Each carries 10 marks.*

1. (a) Describe the principle and limitations of keratometer. **7x10=70**
(b) Describe the principle of Lensometer.
2. Describe the clinical uses of the following :
 - (a) Perimetry
 - (b) Synoptophore
 - (c) Topography
 - (d) Electroretinogram.
3. Describe the various methods of sterilization used in ocular surgery. Discuss the advantages of autoclaving.
4. (a) Describe the Humphrey automated field analyser.
(b) Explain in brief the procedure and its interpretation.

5. (a) Describe various theories of colour vision.
(b) Enlist the colour vision testing devices and describe any one of them in detail.
 6. Describe the various types of LASERS used in ophthalmology.
 7. Discuss the advantages and disadvantages of :
 - (a) Autorefractor and Retinoscopy.
 - (b) Direct ophthalmoscopy and indirect ophthalmoscopy.
 - (c) Heat sterilisation and chemical sterilisation.
 8. Describe the differences between.
 - (a) Goldmann and Schoitz tonometry
 - (b) Spot and streak retinoscope
 - (c) A scan and B - scan ultrasonography.
 9. Write short notes on
 - (a) Retroillumination technique of slit lamp illumination
 - (b) Bagolini striated glasses
 - (c) Sources of error in retinoscopy.
 10. (a) Describe the techniques of FFA (Fundus Fluoroscin Angiography) in detail.
(b) Explain the various phases and their interpretation in the angiogram
-