

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

**Term-End Examination**

**December, 2013**

**BOS-007 : VISUAL OPTICS**

*Time : 3 Hours*

*Maximum Marks : 70*

**PART - A**

Attempt *any four* questions. Each question carries  
10 marks : **10x4=40**

1. Define Hypermetropia. Explain the classification of Hypermetropia.
2. Describe AC/A Ratio. Explain various methods of measurement of AC/A Ratio.
3. Define Visual Acuity. Discuss the various factors which are affecting the visual acuity. Enlist various charts which are used for the measurement of distance visual acuity.
4. Define glare acuity explain different types of glare acuity and its management.

5. Describe the types of retinoscopy. Explain the steps of doing retinoscopy.
6. A 20 year old patient's chief complaint is headache during near work and his retinoscopy finding is +3.50 DS, at working distance  $\frac{1}{2}$  meter. What will be his final acceptance? Which procedure you will follow in subjective refraction to verify his prescription?

#### PART - B

7. Write short notes on *any six* of the following. Each carries *five* marks : 6x5=30
    - (a) Anisometropia
    - (b) Cambridge low contrast grating test.
    - (c) Spasm of accommodation
    - (d) Scheiner's principle
    - (e) Working lens
    - (f) Pseudo Isocromatic plate test
    - (g) Log MAR chart
    - (h) Principle of retinoscopy.
-