

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

Term-End Examination

December, 2015

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 Myopia. Describe the classification and treatment of Myopia.
2. What is Aphakia ? Describe the optics, clinical features and treatment of Aphakia.
3. Define Glare. Describe any two types of glare and their management.
4. (a) Explain the terms Range and Amplitude of Accommodation.
(b) A hypermetropic patient has far point (FP) 50 cm behind the spectacle plane and near point (NP) 20 cm in front of the eye. Calculate the Range and Amplitude of Accommodation.

5. What do you understand by Convergence Insufficiency ? Write causes, clinical features and treatment of Convergence Insufficiency.
6. Describe the various steps of Subjective Refraction.

PART - B

7. Write short notes on **any six** of following : **5x6=30**
- (a) Laws of Refraction
 - (b) Classification of Astigmatism
 - (c) Knapp's Law
 - (d) Difficult situations of Retinoscopy
 - (e) AC/A Ratio
 - (f) Gauss's Theorem
 - (g) Chromatic aberrations
 - (h) Auto Refractors
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