

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

Term-End Examination

December, 2012

BOS-007 : VISUAL OPTICS

Time : 3 Hours

Maximum Marks : 70

PART - A

Answer any four questions. Each carries 10 marks.

10x4=40

1. (a) Explain the terms Anisometropia and Aniseikonia.
(b) Classify and describe the signs, symptoms and management of any one.
2. (a) Define the term 'Contrast' .
(b) Explain the clinical significance of testing contrast.
(c) Enlist the various tests for measuring it.
3. (a) Define Visual Acuity.
(b) Describe its components and various factors affecting it.

- (c) Explain how Bailey Lovie chart design overcomes the shortcomings of the Suellen chart.
4. Explain the Anomalies of Accomodation.
 5. Describe the principle of Auto refractor along with the ray diagrams. Enlist the limitations of Auto refractors over ratinoscopy.
 6. Describe various methods by which you can determine the best vision sphere and spherio - cylindrical correction in subjective refraction.

PART - B

Write short notes on *any six* of the following :

6x5=30

- (a) Aphakia
 - (b) AC/A ratio
 - (c) Classification of Astigmatism
 - (d) Management of Colour Vision defects.
 - (e) Types of retinoscopy.
 - (f) Refractive status of children.
 - (g) Circle of Least diffusion.
 - (h) Progressive Myopia.
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