

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

Term-End Examination

June, 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 Visual Acuity. Explain the procedure of testing visual acuity.
2. Define Astigmatism. Explain the classification of astigmatism with the help of suitable diagrams.
3. Describe Accommodation. Explain the methods of testing Amplitude of accommodation.
4. Define contrast sensitivity. Describe various contrast sensitivity charts.

5. Explain the two major systems of retinoscope. Differentiate between spot & streak retinoscope.

6. If retinoscopy finding is $-3.00DS / -1.00DC \times 180^\circ$ at working distance $1/2$ meter . What will be the retinoscopy acceptance. How will you use cross cylinder to verify this prescription.

PART - B

7. Write short notes on *any six* of the following. Each carries *five* marks. 6x5=30

- (a) Sturm's conoid
 - (b) Disability glare
 - (c) Range and amplitude of accommodation
 - (d) Colour vision
 - (e) Duochrome test
 - (f) Brightness acuity tester (BAT)
 - (g) Stenopic slit
 - (h) Binocular Balancing
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