

00422

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

Term-End Examination

June, 2018

BOS-007 : VISUAL OPTICS

Time : 3 hours

Maximum Marks : 70

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- Note :** (i) *This question paper consist of two Parts A and B.*
(ii) *Part A contains 6 questions. Answer any four questions. Each question carries 10 marks.*
(iii) *Part B contains 8 questions. Answer any six. Each carries 5 marks.*
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PART - A

Attempt any four questions. Each question carries 10 marks :

1. (a) Define Myopia with the help of a diagram.
(b) Explain the optics of Myopic Eye.
(c) Describe the clinical features of Simple and Pathological Myopia.
2. Define Aniseikonia. Discuss about the classification and clinical features of Aniseikonia.
3. (a) Define Amplitude of Accommodation. **2+4+4**
(b) Describe any two methods used to measure Amplitude of Accommodation.
(c) Calculate the Amplitude of Accommodation for an uncorrected Hypermetrope of 4D whose near point of accommodation is at 10 cm.

4. What do you understand by the term "glare". Explain the various types of glare and their management.
5. (a) Explain the characteristics of Retinoscopic Reflex.
(b) Write about the types of Retinoscopy and also discuss the errors in Retinoscopy.
6. List the various techniques of Subjective Refraction. Explain in detail the principle and uses of Jackson's Cross Cylinder.

PART - B

7. Answer any six. Each carries 5 marks : **5x6=30**
 - (a) Regular and Irregular Astigmatism
 - (b) Pseudo Isochromatic Plates
 - (c) Log Mar Charts
 - (d) Pediatric Visual Acuity Testing
 - (e) Correction options for Presbyopia
 - (f) Auto Refractors
 - (g) Convergence Insufficiency
 - (h) WFDT
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