

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

**Term-End Examination**

**June, 2010**

**BOS-007 : VISUAL OPTICS**

*Time : 3 hours*

*Maximum Marks : 70*

- Note :**
- (i) *This question paper consists 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 :** . . . . . **10x4=40***

1. Define and classify myopia. How is it corrected ?  
Describe the prescription guidelines in correction of myopia.
  
2. Define anisometropia and anisekonia. Write the normal tolerance values and describe the treatment methods.
  
3. Enumerate the principle of visual acuity measurement. Describe the various components and notations of Visual Acuity.

4. Describe the various colour vision defects? Enlist various tests. Describe pseudo isochromatic plate test.
5. What do you understand by the Range & amplitude of accommodation? A myopic eye has Far Point (FP) 100 cms in front of the eye and Near Point (NP) 10 cms in front of the eye. Calculate the range and amplitude of accommodation.
6. Describe the various steps of subjective refraction.

**PART - B**

7. Answer *any six*. Each carries 5 marks : **6x5=30**

- (a) Emmetropization.
  - (b) Methods for correction of aphasia.
  - (c) 'With the rule', 'against the rule' and oblique astigmatism.
  - (d) Glare acuity.
  - (e) Near vision testing notations.
  - (f) Spot and streak retinoscopy.
  - (g) Various methods of retinoscopy.
  - (h) Convergence insufficiency.
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