

00302

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

**Term-End Examination**

**June, 2018**

**BOS-004 : BASIC OCULAR SCIENCES**

*Time : 3 hours*

*Maximum Marks : 70*

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- Note :** (i) *This question paper consists of two parts : A and B.*  
(ii) *Part 'A' contains 8 questions. Answer any five questions.*  
(iii) *Part 'B' contains 10 short notes. Write any six short notes.*
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**PART - A**

1. Describe the anatomy of visual pathways with the help of suitable diagrams. 8
2. What is accommodation ? Describe various mechanisms of accommodation. 8
3. Explain the process of aqueous humour formation. Describe the movement and outflow of aqueous. 8
4. What is cataract ? Describe various types of cataracts. 8
5. Describe the properties of miotics, mydriatics and cycloplegics. 8

6. What are Extra-Ocular Muscles (EOMs) ? 8  
Describe the anatomy of extra-ocular muscles with their nerve supply.
7. (a) Describe various methods used for colour vision assessment. 8  
(b) Enlist the advantages and disadvantages of Ishihara's Chart.
8. Describe the mechanism of action, route of administration, indications and complications of steroids used in ocular disorders. 8

### PART - B

9. Write short notes on any six of the following. Each carries five marks. 6x5=30
- (a) Layers of Cornea
  - (b) Carcinoma in Situ
  - (c) Ocular Manifestations of Vitamin A deficiency
  - (d) Schirmer's Test
  - (e) Punctal Occlusion
  - (f) Extra-ocular Muscles
  - (g) AC/A Ratio
  - (h) Iris Coloboma
  - (i) VER
  - (j) Artificial Tears
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