

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

Term-End Examination

June, 2013

BOS-004 : BASIC OCULAR SCIENCES

Time : 3 hours

Maximum Marks : 70

PART - A

Answer *any five* questions. Each carries 8 marks.

1. Describe the process of aqueous humour formation and its drainage system. 8
2. (a) Define miotics, mydriatics and cycloplegias. 8
(b) Describe one agent of each group used in Ophthalmology.
3. Describe the different layers of Cornea and the Tear film. 8
4. Describe the anatomy of different extra ocular muscles (EOMs) and their actions in primary gaze. 8

5. (a) Describe the mechanism of accommodation.
(b) Discuss the various theories of accommodation .
(c) What is AC/A ratio ? **3+3+2**
6. What is VER ? Mention the pathologies for which VER is used. **8**
7. (a) Describe the different methods used to document colour vision. **4+4**
(b) What are the advantages and disadvantages of Ishinara's Chart ?
8. Describe the method of using synoptophore to document Binocular single vision. **8**

PART - B

Write short notes on *any five* of the following : 6x5=30

- (a) Corneal Transparency
 - (b) Lacrimal Drainage system
 - (c) Episcleritis
 - (d) Superior oblique muscle
 - (e) Marcus Gunn Pupil
 - (f) Levator Palpebrae Superioris
 - (g) EOG
 - (h) Iris Coloboma
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