

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

**Term-End Examination
December, 2013**

BOS-004 : BASIC OCCULAR SCIENCES

Time : 3 hours

Maximum Marks : 70

PART - A

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

1. (a) Describe the anatomy of cornea. 4+4
(b) Explain the factors responsible for Corneal Transparency.
2. Describe the embryology of the eye and its various structures. 8
3. Explain in detail the visual cycle and the mechanism of generation of impulse. 8
4. Describe in detail the various defects in pupillary reflexes. 8
5. (a) Explain the Binocular Single Vision (BVS). 3+5
(b) Describe the various tests to measure BSV.
6. Write short notes of the following :
(a) Ocular manifestations of Vitamin A deficiency. 4+4
(b) Carcinoma in Situ.

7. (a) Explain the different layers of the tear film. **4+4**
(b) Describe the different tests to assess tear film dysfunction.
8. (a) Classify antiglaucoma agents. **3+5**
(b) Describe the mechanism of action of p blockers and Prostaglandin analogues.

PART - B

Write short notes on **any five** of the following :

- (a) Congenital Cataract. **6x5=30**
(b) Horner's Pupil.
(c) Schirmer's test
(d) Ishihara's Test
(e) Punctal Occlusion
(f) Worth Four Dot Test
(g) Optic Atrophy
(h) Latanoprost
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