

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

**Term-End Examination
June, 2014**

BOS-011 : CONTACT LENS

Time : 3 hours

Maximum Marks : 70

Note : Attempt *any seven* questions. Each question carries 10 marks.

1. What is soft tonic contact lens. Explain the different stabilization methods in tonic contact lenses. 10

2. How would you counsel a spectacle user for contact lenses? Compare the advantages of disposable contact lenses over conventional contact lenses. 10

3. A 20 year old female comes with spectacle correction in right eye $-2.50/-0.50 \times 170^\circ$ and left eye -4.50 Ds. Her Keratometry reading in Right eye is K_1 7.6m K_2 7.8mm and left eye is K_1 7.7m K_2 7.7m. Illustrate the steps of custom made soft contact lens fitting in this case. What will be the final prescription of soft contact lenses in both eyes? 10

4. Name the conditions in which RGP contact lenses are prescribed. Suggest some specialised contact lens options in keratoconus. **10**
5. How does cornea receive oxygen during soft RGP contact lens wear? Define Oxygen permeability and oxygen transmissibility. **10**
6. Describe in brief five complications in soft contact lens wear. **10**
7. Explain any five parameters of contact lenses with the help of a labelled diagram. **10**
8. Write short note on *any five* of the following: **2x5=10**
- (a) Presbyopic contact lens
 - (b) Indications for contact lens wear
 - (c) Schirmer's test

- (d) Cast Molding
- (e) Tear Film layers
- (f) H_2O_2 (Hydrogen per oxide) system of disinfection.

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