

00914

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

**Term-End Examination**

**June, 2015**

**BOS-011 : CONTACT LENS**

*Time : 3 hours*

*Maximum Marks : 70*

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**PART - A**

There are **seven** questions in this part. Attempt **any five**. Each carries **10** marks. **10x5=50**

1. Enlist the steps of fitting of RGP contact lens. Explain each step in brief.
2. Describe the signs, symptoms aetiology and treatment of hypoxia induced due to contact lens.
3. What are silicone hydrogel lenses ? Describe their benefits over hydrogels. Name various types of silicone hydrogel lenses available in the market.
4. Describe the various components of contact lens solutions. Write in brief about the functions of each component.

5. Define DK and DK/t. What is Oxygen transmissibility ? Describe the various methods of its measurement.
6. (a) Describe the benefits of disposable lenses over conventional lenses.  
(b) Name few types of disposable soft lenses.  
(c) What is the difference between one day disposable and Planned Replacement Program (PRP) ?
7. A 42 year old female using monthly disposable contact lenses for past 15 years. The power of her lenses is  $-1.0$  DS/h RE and  $-1.50$  DS/h left eye. She now complains of blur near vision. How will you manage it ?

### PART - B

Write short notes on **any five**. Each carries **four** marks : **4x5=20**

8. (a) 3 and -9 o' clock staining.  
(b) Break Up Time (BUT).  
(c) Accommodation and convergence demand with contact lens compared to spectacles in myopic eye.  
(d) Prefitting procedures in contact lens fitting  
(e) LARS rule.  
(f) Optical advantages of contact lens over spectacles.  
(g) Management of dry eye with contact lenses.
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