

**B.Sc. (HONS) IN OPTOMETRY AND  
OPHTHALMIC TECHNIQUES**

**Term-End Examination**

**December, 2011**

**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** questions. Each carries **10** marks. **5×10=50**

1. Enlist the steps of fitting **SOFT CONTACT LENSES**. Explain each step in brief.
  
2. A patient has a spectacle power  
RE :  $-2.50 / -2.0$  DC  $\times 10$   
LE :  $-2.00 / -2.25$  DC  $\times 170$   
The Keratometry readings are  
RE :  $42.0@10 / 44.50@100$   
RE :  $42.0@170 / 43.50@80$   
The anterior segment shows no abnormality.  
Which lenses would you recommend and why ?  
Write down the steps of fitting contact lens for this patient.

3. Describe any three complications due to contact lenses.
4. Describe the steps of care and maintenance of soft contact lenses.
5. Classify contact lenses on the basis of materials. Explain the properties, advantages and disadvantages of each.
6. Describe various stabilization techniques of toric contact lenses.
7.
  - (a) What is LASIK ?
  - (b) Describe the criteria for selection of a patient for LASIK procedure.
  - (c) Explain the role of an optometrist in refractive surgery.

## PART - B

Attempt *any five* short notes. Each carries *four* marks.

5×4=20

8. (a) Schirmer's test
- (b) Prosthetic contact lenses
- (c) Oxygen transmissibility
- (d) Disinfection of soft lenses
- (e) Fluorescein assessment in RGP lenses
- (f) Retcoilhemination technique of slit lamp examination.
- (g) Disposable contact lenses.
- (h) Contact lens manufacturing by cast molding technique.
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