

00263

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

**Term-End Examination**

**June, 2010**

**BOS-011 : CONTACT LENS**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt all questions.*

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1. A 20 year female has -2.50 DS/h power in both eyes. The Keratometry readings are 7.55 @ 180 and 7.50 @ 90. The patient has no ocular and systemic problem. Write down the steps in fitting a soft lens for this patient. 10

**OR**

Write down the steps involved in care and maintenance of soft contact lenses. Enlist the Do's and Dont's instructions to be given to soft contact lens user.

2. Write any four contraindications of contact lenses. 4

3. Write in brief the procedure of Schirmer's test. 4  
What are the other tests to evaluate the tear film ?
4. Enlist eight important points which should be 4  
considered while testing history for fitting the  
contact lenses.
5. With the help of diagram explain the fluorescein 4  
pattern in ideal RGP lens fitting.

**OR**

Describe retroillumination technique used in Slit  
Lamp Examination.

6. Calculate empirically the soft contact lens power 4  
if the spectacle prescription is :
- (a)  $-1.25$  D S/h  
(b)  $-4.25$  D S/h /  $-0.75$  DC  $\times 180^\circ$   
(c)  $-8.50$  D S/h  
(d)  $+2.50$  D S/  $+0.75$  DC  $\times 180^\circ$
7. Describe the source of oxygen to cornea in open 4  
and closed eye condition. How does oxygen  
reach the cornea when contact lens is placed on  
the eye ?
8. Differentiate between daily and extended wear 4  
contact lenses ?

9. Explain the F.D.A. classification of soft contact lenses. 4
10. Name any four procedures of refractive surgery. Write in brief any one procedure. 4
11. Describe in brief about therapeutic contact lenses. 4
- OR**
- Describe monovision concept of presbyopic correction with contact lenses.
12. Calculate the RGP, lens power if the spectacle prescription is : 2  
-2.25 D S/h fitted steeper than K.
13. A patient has  $-3.0 / -2.0 \text{ DC} \times 10^\circ$ . A soft toric lens  $8.5 / -2.0 / -1.25 \times 10 / 14.2$  is placed as trial on the eye. The lens fits well but shows  $20^\circ$  rotation to right. Write the final prescription of the contact lens. 2
14. Name any 2 disinfectants of contact lens solutions. 2
15. Classify contact lens on basis of replacement schedule. 2
16. Define oxygen transmissibility. 2

17. Define overall diameter and Base curve (with respect to contact lenses) 2
  18. Enlist any two complications of contact lenses. 2
  19. Write down any two effects of deposits on Soft Contact lenses. 2
  20. Write any two medical indications for prescribing of contact lenses ? 2
  21. Write the names of two materials which are used for contact lenses. 2
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