



Name : .....  
Roll No. : .....  
Invigilator's Signature : .....

**CS/B.OPTM/SEM-5/BO-502/2009-10  
2009  
CONTACT LENS – I**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**GROUP – A  
( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any *ten* of the following :  
10 × 1 = 10

- i) PMMA is a material of
  - a) soft lens
  - b) RGP lens
  - c) Soft bifocal lens
  - d) none of these.
  
- ii) A patient has spectacle refraction of – 12.75 DS at a vertex distance of 14 mm. If this patient is fitted with a contact lens, BVP of the contact lense will be
  - a) – 11.50D
  - b) – 11.00 D
  - c) – 12.00 D
  - d) – 10.50 D.

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- ix) All are material properties of a contact lens *except*
- a) oxygen permeability
  - b) oxygen transmissibility
  - c) water content
  - d) modulus of elasticity.
- x) The greater the 'Sag' of a lens
- a) the steeper the lens becomes
  - b) the flatter the lens becomes
  - c) the lens fits optimally
  - d) none of these.
- xi) The movement of a contact lens is required mainly for
- a) Tear exchange under the lens
  - b) Removal of tear film debris under the lens
  - c) Provide oxygen to cornea
  - d) Proper wetting of cornea & contact lens.

**GROUP – B**

**( Short Answer Type Questions )**

Write short notes on any *three* of the following.

3 × 5 = 15

2. F.D.A. classification of soft contact lenses.
3. Contact lens, over refraction.
4. At least three types of patients in whom you will definitely *Not* prescribe soft C.L. with explanation.
5. Role of corneal topography in fitting contact lenses, in difficult cases.

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**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

6. Write about spherical SCL fitting and the effects of parameter changes.
7. a) What is Vertex Compensation ? What is its importance ?
- b) Describe the RGP lens fitting philosophies.
- c) What are the advantages and disadvantages of SCL over RGP ?  $4 + 5 + 6$
8. a) What are the different contact lens manufacturing methods ? Explain the cast molding method of lens manufacturing method. Also mention its advantages & disadvantages.
- b) What are the factors responsible for a contact lens to stay on eye ?  $8 + 3 + 4$
9. a) What are the principles of action, of the different components of a standard contact lens care solution available commercially ?
- b) Give the Market names of three commonly used SCL care solutions.  $12 + 3$
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