

**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER VI – CONTACT LENS**

*Q.P. Code: 806066*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Expand RGP contact lens. Write about RGP contact lens fitting and its evaluations.
2. Classify contact lenses. Write advantages and disadvantages of contact lenses in detail.
3. Manufacturing techniques used for making contact lens.

**II. Write notes on:**

**(8 x 5 = 40)**

1. List the complications of soft contact lens. Give detail about contact lens induced papillary conjunctivitis.
2. Define Keratometry. Write uses of keratometry in contact lens fitting.
3. Contact lens materials.
4. Therapeutic contact lenses.
5. Occupational uses of contact lenses.
6. Contact lens fitting in Aphakia and Pseudophakia
7. Terms used in relation to properties of contact lens materials.
8. Contact lens solution and properties.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Name the deposits on soft contact lens.
2. Define Oxygen Transmissibility.
3. Notes on handling of contact lenses.
4. Diagnostic uses of contact lenses.
5. Parameters for an ideal preservation.
6. Sattler's Veil.
7. Uses of contact lens in nystagmus.
8. Disadvantages of PMMA.
9. Contact lens versus spectacles.
10. Spectacle refraction of a patient is  $-2.00/-1.50 \times 160^\circ$  and  $-1.50/-1.25 \times 20^\circ$  in right and left eye respectively. He was fitting with a soft toric contact lens -  $2.00/-1.50 \times 160^\circ$  and  $-1.50/-1.25 \times 20^\circ$  in right and left eye. During assessment toric lens rotates  $20^\circ$  clockwise in right eye and  $20^\circ$  anti-clockwise in left eye. What is the final prescription of the toric contact lens (Use LARS rule)?

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**I. Elaborate on:**

**(3 x 10 = 30)**

1. Indications and Contraindications of contact lens use.
2. Fitting procedure of soft contact lens and evaluation.
3. Discuss about the corneal complications of contact lens.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Find out the contact lens power for following prescriptions (vertex distance = 14 mm)  
a) -5.00 DSPH                      b) +10.00 DSPH
2. Write about the stabilization techniques in soft toric contact lens.
3. Define keratoconus. Write about the contact lens fitting in keratoconus patients.
4. Write about accommodation and convergence with contact lens.
5. Optics of contact lenses.
6. Properties of an ideal contact lens material.
7. Cosmetic contact lenses.
8. Extended wear lenses.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define Contact lens.
2. What is Multi Purpose Solutions?
3. Define oxygen permeability.
4. Acanthamoeba keratitis.
5. Indications for toric lens.
6. LARS rule.
7. Water content of a contact lens.
8. Bifocal contact lenses.
9. Define Bandage contact lens.
10. Conjunctival complications of contact lens.

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[LN 0818]

AUGUST 2018

Sub. Code: 6066

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**THIRD YEAR**

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**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail about soft contact lens care and maintenance.
2. Discuss about contact lens solutions, their properties and uses.
3. Write in detail about toric contact lens patient selection, fitting considerations and its evaluations.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write about advantages of contact lens over spectacles.
2. Write classification of contact lens.
3. Contact lens fitting in astigmatism.
4. Write about Disposable contact lenses.
5. Optics of contact lenses.
6. Selection of a patient for contact lens fitting.
7. Contact lens materials.
8. Corneal anatomy with diagram.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Contact lens options for keratoconus patients.
2. Write the parts of contact lens.
3. What is Hybrid contact lens?
4. Fitting contact lens in nystagmus.
5. Properties of contact lens solutions
6. Explain: HEMA
7. Causes of decentration of soft contact lens.
8. Types of rigid lenses.
9. Parameters for good fitting of contact lens.
10. How do you examine the tear film quality?

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