

**B.OPTOM**  
(New Syllabus 2015-2016)

**THIRD YEAR**

**PAPER III – LOW VISION AIDS AND CONTACT LENS**

*Q.P. Code: 802723*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail the manufacturing techniques for contact lenses.
2. Elaborate on the contact lens option for presbyopia.
3. Write in detail the examination and evaluation done for a low vision patient.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Types of non-optical devices and assistive devices.
2. Optics of low vision devices.
3. FDA classification of contact lenses.
4. Stabilization technique for a soft toric lenses.
5. Static fitting of RGP lens.
6. Explain the physiology of cornea and oxygen supply with a contact lens.
7. Rose K lenses.
8. Rigid lenses insertion and removal.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Give three examples of diseases that cause peripheral field defect.
2. Give three advantages of stand magnifier over the hand magnifier.
3. Define sagittal depth and its importance.
4. What is a tear lens?
5. List three important features which an ideal contact lens material should have?
6. List three difference between soft and RGP contact lens.
7. The spectacle prescription is: -2.00Dsp/ -2.25DCx180. If the rotation of the lens is 10 degrees to the left what will the final lens order be.
8. What is piggy back lens?
9. Name three condition which are suitable for therapeutic lens wear?
10. Define base curve. Calculate the base curve for a soft contact lens.  
OD : 7.5@180 / 7.45@90.