

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

**SECOND YEAR**

**PAPER II – VISUAL OPTICS – I & II**

*Q.P. Code: 802712*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain the optics and procedure of Retinoscopy.
2. Define Astigmatism. Give its causes, types, signs, symptoms and management.
3. Give the causes for presbyopia and different ways how a presbyope can be managed?

**II. Write notes on:**

**(8 x 5 = 40)**

1. Principle and procedure of Duochrome test.
2. Refracting surface of the eye.
3. Optical problems in Aphakic spectacles.
4. Types of amblyopia.
5. Two methods in Binocular balancing.
6. Effective power of spectacle.
7. Aniseikonia.
8. Pseudophakia.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define vergence and give its units.
2. Give the sign conventions used in optics.
3. Define angle kappa and give its importance.
4. Transpose and comment on the type of refractive error -1.00 DS/-0.50 DCX 40.
5. Define far point. Where will be the far point of -5.00Ds myope?
6. A myope with a farpoint of 50cm with near point of 10cm what will be his amplitude of accommodation?
7. Define relative spectacle magnification.
8. Three clinical features in Amblyopia.
9. Give three characteristic feature of a retinoscopic reflex.
10. Define nodal point.