

B.OPTOM
(New Syllabus 2015-2016)

SECOND YEAR

PAPER III – OPTOMETRIC INSTRUMENTS

Q.P. Code: 802713

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Describe the optics and instrumentation of a streak retinoscope with neat ray diagrams.
2. List and classify different types of tonometer. Explain in detail the principle of Applanation tonometry.
3. Describe the optics and instrumentation of a manual keratometry.

II. Write notes on: **(8 x 5 = 40)**

1. Log MAR charts.
2. Instrumentation and indications of doing brightness acuity test.
3. Elaborate on the illumination techniques used in slit lamp examination.
4. Give a short description of a Royal Air Force Rule and its uses.
5. Write a short note on Ishihara color plates.
6. Tabulate the difference between static and kinetic perimetry with examples.
7. Magnifiers used in Low Vision Aids.
8. Test to assess Binocular vision.

III. Short answers on: **(10 x 3 = 30)**

1. Define hill of vision.
2. List types of near vision notations.
3. Uses of pupillometer.
4. Classify the types of color vision defects.
5. List different types of non-optical devices in Low vision Aids.
6. List any three applications of Electroretinogram.
7. Explain the term pleoptics giving an example.
8. Principle of Snellen acuity chart.
9. List the advantages of Topography Modelling system.
10. State the principle of Lensometer.