

[LJ 1016]

OCTOBER 2016

Sub. Code: 1605

**M. OPTOM EXAMS
FIRST YEAR
PAPER V – OPTOMETRIC INSTRUMENTS**

Q.P. Code: 281605

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. What is corneal topography? List the different instruments used for corneal topography? Write a note on Keratometer.
2. Explain in detail about direct ophthalmoscope.

II. Write notes on: **(10 x 6 = 60)**

1. What is tonometry? Write the principles of tonometer.
2. Phoropter.
3. Lensometer.
4. Tests for binocular single vision.
5. Accommodation.
6. Use of Jackson cross cylinder.
7. Types of retinoscopy.
8. Uses of Fundus camera.
9. Principles of vision screeners.
10. Different microscope viewing systems used in slit lamp.

[LK 0517]

MAY 2017

Sub. Code: 1605

**M. OPTOM EXAMS
FIRST YEAR
PAPER V – OPTOMETRIC INSTRUMENTS**

Q.P. Code: 281605

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Discuss devices for recording visual fields.
b) Write a note on analysis of screener results.
2. Auto Refraction Instrument – principle of function.

II. Write notes on:

(10 x 6 = 60)

1. Infra red optometer devices.
2. Indirect ophthalmoscope.
3. Lensometer.
4. Colour vision testing devices.
5. Consulting room – illumination.
6. Video keratotomy.
7. Orthoptic instruments - home devices.
8. Slit lamp accessories.
9. Near vision.
10. Hruby lens.

[LL 1017]

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FIRST YEAR
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Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about retinoscopy.
2. Write in detail about Baush and Lomb refractometer and its various uses.

II. Write notes on:

(10 x 6 = 60)

1. Define principal of auto-refractometer and its uses.
2. What are the drugs used for cycloplegic retinoscopy?
3. Name various field testing devices.
4. What are indications of 'A' scan and 'B' scan?
5. Write about colour vision charts and what are colour vision defects?
6. Write about binocular single vision.
7. Optical and non optical device in low vision.
8. Specular microscope.
9. Test chart and trial set.
10. Classify tonometers.

[LN 1018]

OCTOBER 2018

Sub. Code: 1605

**M. OPTOM EXAMS
FIRST YEAR
PAPER V – OPTOMETRIC INSTRUMENTS**

Q.P. Code: 281605

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Fundus Camera – principles, uses. Add a note on fluorescein angiography.
2. Explain binocular single vision. Tests for BSV and instruments used to measure BSV.

II. Write notes on:

(10 x 6 = 60)

1. Pachymetry.
2. Orbscan.
3. A Scan biometry.
4. Bausch & Lomb Keratometer.
5. Anterior segment photography.
6. Schiottz tonometer.
7. Jackson cross cylinder.
8. Kinetic perimeter.
9. Lensometer.
10. Hess Chart.

[LO 0519]

MAY 2019

Sub. Code: 1605

**M. OPTOM EXAMS
FIRST YEAR
PAPER V – OPTOMETRIC INSTRUMENTS**

Q.P. Code: 281605

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Visual acuity charts – Mention the principle, and charts appropriate for pediatric and adult age groups.
2. Principle of retinoscopy with appropriate diagrams depicting optics.

II. Write notes on: **(10 x 6 = 60)**

1. Direct Ophthalmoscope – working, advantages, and disadvantages.
2. Indirect Ophthalmoscope – working, advantages, and disadvantages.
3. Static perimetry – available testing devices and strategies for visual field testing.
4. Lensometry – Principle and optics.
5. Slitlamp illumination techniques.
6. Types of tonometers.
7. Synoptophore – principle and uses.
8. Tools for corneal surface assessment.
9. Techniques for fundus camera.
10. Filters for Ophthalmoscope and uses.
