

[LB 0212]

AUGUST 2012

Sub. Code: 1513

**DIPLOMA IN OPTOMETRY TECHNOLOGY**

**SECOND YEAR**

**PAPER III – OPTOMETRIC INSTRUMENTS**

**Q.P. Code : 841513**

**Time : Three hours**

**Maximum : 100 marks**

**(180 Mins) Answer ALL questions in the same order.**

**I. Elaborate on:**

**Pages Time Marks  
(Max.)(Max.)(Max.)**

- |  |   |    |    |
|--|---|----|----|
| 1. Give the names of the charts used for testing distance and near visual Acuity. Write the procedure of testing distance visual acuity. | 7 | 20 | 10 |
| 2. Types of retinoscopes and their merits and demerits. Write the procedure of cycloplegic retinoscopy.                                  | 7 | 20 | 10 |
| 3. Automated perimetry.  | 7 | 20 | 10 |

**II. Write notes on:**

- |  |   |   |   |
|--|---|---|---|
| 1. Maddox wing.  | 4 | 9 | 5 |
| 2. Pachymetry.   | 4 | 9 | 5 |
| 3. Merits and demerits of indirect and direct ophthalmoscopes.     | 4 | 9 | 5 |
| 4. Bjerrum's screen.   | 4 | 9 | 5 |
| 5. Procedure of testing with Amsler's grid and its interpretation. | 4 | 9 | 5 |
| 6. Hess screen.  | 4 | 9 | 5 |
| 7. Description of trial set and its accessories. Give their uses.  | 4 | 9 | 5 |
| 8. Schirmer's test and its results.                                | 4 | 9 | 5 |
| 9. Indications for FFA.  | 4 | 9 | 5 |
| 10. Pinhole.   | 4 | 9 | 5 |

**III. Short Answers on:**

- |   |   |   |   |
|---|---|---|---|
| 1. Red and green filters.                                 | 1 | 3 | 2 |
| 2. Uses of prism bar.                                     | 1 | 3 | 2 |
| 3. Uses of Jackson's cross cylinder.                      | 1 | 3 | 2 |
| 4. Uses of lensometer.                                    | 1 | 3 | 2 |
| 5. Uses of corneal topography.                            | 1 | 3 | 2 |
| 6. Types of gonioscopes.                                  | 1 | 3 | 2 |
| 7. IOL power calculation.                                 | 1 | 3 | 2 |
| 8. Name the surgical instruments used for trabeculectomy. | 1 | 3 | 2 |
| 9. Methods of urine sugar estimation.                     | 1 | 3 | 2 |
| 10. Uses of Maddox rod.                                   | 1 | 3 | 2 |

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[LC 0212]

FEBRUARY 2013

Sub. Code: 1513

**DIPLOMA IN OPTOMETRY TECHNOLOGY**

**SECOND YEAR**

**PAPER III – OPTOMETRIC INSTRUMENTS**

*Q.P. Code : 841513*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Write in detail about Applanation Tonometry
2. Describe in detail about any four methods of slitlamp illumination techniques.
3. Give the principle of keratometry and describe the procedure of manual keratometry.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Procedure of direct ophthalmoscopy.
2. Merits and demerits of spot and streak retinoscopes.
3. Snellen's chart.
4. Automated lensometer.
5. Procedure of obtaining blood sugar level using Glucometer.
6. Pinhole.
7. Explain the procedure of measuring blood pressure.
8. Classify perimeter and mention the various field defects in glaucoma.
9. IOL power calculation.
10. Principle of Auto refractometer and its uses.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Give names of four tonometer.
2. Uses of Maddox rod.
3. Two methods to measure corneal curvature.
4. Three tests for assessing dry eye.
5. Normal range of blood sugar level.
6. Uses of prism bar.
7. Bjerrum's screen.
8. Parts of Schiotz's tonometer.
9. Two methods to measure peripheral visual fields.
10. Uses of pachymeter.

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**DIPLOMA IN OPTOMETRY TECHNOLOGY  
SECOND YEAR  
PAPER III – OPTOMETRIC INSTRUMENTS  
*Q.P. Code: 841513***

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**3 x 10 = 30**

1. Tests for dry eyes.
2. Define Perimetry and various examination methods
3. A-Scan

**II. Write Notes on:**

**10 x 5 = 50**

1. Principles of Direct Ophthalmoscope
2. Different types of distant vision charts
3. Auto refractometer
4. Corneal Topography
5. Tests for Lacrimal duct patency
6. Non -Contact tonometer
7. Parts of Operating microscope
8. Direct Gonioscopy
9. Vision drum - Description and Uses
10. Optics of slit lamp biomicroscopy

**III. Short Answers on:**

**10 x 2 = 20**

1. Maddox wing
2. Maddox rod
3. Bjerrum's screen
4. Principle of Keratometry
5. Automated Lensometer
6. Break -up time
7. List the name of instruments used in cataract surgery
8. Amsler chart
9. Prism bar
10. Indentation tonometers.

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