

[LB 0212]

AUGUST 2012

Sub. Code: 1511

**DIPLOMA IN OPTOMETRY TECHNOLOGY
SECOND YEAR**

**PAPER I – OPTOMETRIC OPTICS,
CONTACT LENSES AND LOW VISION AIDS**

Q.P. Code : 841511

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. Discuss how a doctor decides on which type of lens would the patient benefit the most. | 7 | 20 | 10 |
| 2. Define Legal blindness and discuss low vision. | 7 | 20 | 10 |
| 3. Basic Principles in contact Lens. | 7 | 20 | 10 |

II. Write notes on:

- | | | | |
|---|---|---|---|
| 1. Inter-Pupillary distance: Its importance. | 4 | 9 | 5 |
| 2. How to Adjust eye glasses. | 4 | 9 | 5 |
| 3. Centering of the lenses. | 4 | 9 | 5 |
| 4. How can you help your Aphakic patient to choose glasses. | 4 | 9 | 5 |
| 5. Care of contact lenses. | 4 | 9 | 5 |
| 6. Extended wear contact lenses. | 4 | 9 | 5 |
| 7. Keratoconus contact lens fitting. | 4 | 9 | 5 |
| 8. Corneal problem associated with contact lens wearer. | 4 | 9 | 5 |
| 9. Magnification consideration in low vision devices. | 4 | 9 | 5 |
| 10. High-plus addition lens in low vision. | 4 | 9 | 5 |

III. Short Answers on:

- | | | | |
|---|---|---|---|
| 1. Base Curve. | 1 | 3 | 2 |
| 2. Plastic Lenses. | 1 | 3 | 2 |
| 3. Problem caused by misaligned or improper frame size. | 1 | 3 | 2 |
| 4. What is retroscopic tilt? | 1 | 3 | 2 |
| 5. Soft Lenses: Describe. | 1 | 3 | 2 |
| 6. Therapeutic contact lenses. | 1 | 3 | 2 |
| 7. Giant Papillary conjunctivitis (GPC). | 1 | 3 | 2 |
| 8. Contra-indication for contact lenses. | 1 | 3 | 2 |
| 9. Telescope. | 1 | 3 | 2 |
| 10. Stand magnifier. | 1 | 3 | 2 |

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FEBRUARY 2013

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SECOND YEAR**

**PAPER I – OPTOMETRIC OPTICS,
CONTACT LENSES AND LOW VISION AIDS**

Q.P. Code : 841511

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on:

(3 x 10 = 30)

1. Interpupillary distance
2. Cosmetic Contact lenses
3. Evaluation of a person with low vision

II. Write notes on:

(10 x 5 = 50)

1. Lens decentration
2. Photochromic lenses
3. Boxing system
4. Effects of contact lens on corneal nutrition
5. Contact lens fitting in Aphakia
6. Care of contact lenses
7. Categories of low vision
8. Optical low vision aids
9. Factors affecting visual acuity
10. Vision charts used in low vision assessment

III. Short Answers on:

(10 x 2 = 20)

1. Name the categories of blindness
2. Define low vision
3. Effects of low vision on the individual
4. Name four ocular conditions with low vision
5. Anti reflected coating
6. Name two contra indications for contact lens fitting
7. Two indications for extended wear contact lens
8. Name four materials used for spectacle frames
9. Refractive index of crown glass, flint glass, CR – 39 lens, Polycarbonate lens
10. Bridge of a frame

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SECOND YEAR

PAPER I – OPTOMETRIC OPTICS, CONTACT LENSES, LOW VISION AIDS

Q.P. Code : 841511

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I Elaborate on

3 x 10 = 30

1. Spectacle frame materials, their merits and demerits
2. Classification of Contact lenses
3. Indications and contraindications of contact lenses

II Write notes on

10 x 5 = 50

1. Materials used for making lenses
2. Progressive lenses
3. Auto reflective coating
4. Datum system
5. Lens decentration
6. Properties of Contact lens materials
7. Effect of Contact lens on corneal nutrition
8. Nomenclatures associated with contact lens design. Substantiate with diagram
9. Categories of Low vision
10. Optical Low vision aids.

III Write short answers on

10 x 2 = 20

1. Properties of an ideal lens material
2. Instrument to measure visual axis distance
3. Surface defects
4. Types of contact lenses
5. Define low vision
6. Blindness
7. Effects of low vision on the individual
8. Define magnification. What are the types of magnification?
9. CCTV
10. Angular Magnification
