

August 2011

[KZ 0811]

Sub. Code: 6043

**B.Sc. OPTOMETRY DEGREE EXAMINATION.**

**THIRD YEAR**

**Paper III – LOW VISION AIDS**

*Q.P. Code : 806043*

**Time : Three hours**

**Maximum : 100 marks**

**Answer All questions.**

**I. Elaborate on :**

**(3 x 10 = 30)**

1. Enumerate the optics, uses, advantages and disadvantages of optical devices.
2. Enumerate members of low vision team and their role.
3. Explain visual skills.

**II. Write notes on :**

**(8 x 5 = 40)**

1. Explain multidisciplinary team approach.
2. Differentiate methods of testing for young children with low vision.
3. Types of magnifications with examples.
4. Explain the stages of visual development.
5. A 6 year old child with RP, visual acuity less than 6/36 in both eyes, field less than 40°. Plan the low vision intervention.
6. List the visual skill areas.
7. Explain the importance of CBR in low vision care.
8. Explain elements of vision.

**III. Short Answers on :**

**(10 x 3 = 30)**

1. Define visual impairment.
2. Define low vision.
3. Explain the categories of low vision.
4. Define contrast sensitivity.
5. List the common causes of low vision.
6. Enumerate visual functions.
7. List the perceptual skills.
8. Explain Cardiff acuity chart.
9. Define functional vision.
10. Explain CBR.

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[LB 0212]

AUGUST 2012

Sub. Code: 6043

B.Sc. OPTOMETRY

THIRD YEAR

PAPER III – LOW VISION AIDS

*Q.P. Code : 806043*

**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. Enumerate common disorders leading to low vision. Write in detail about problems and management of the following:- |   |    |    |
| a. Corneal Opacity.   |   |    |    |
| b. Glaucoma.  |   |    |    |
| c. Age related macular degeneration.  | 7 | 20 | 10 |
| 2. Electro optical devices.   | 7 | 20 | 10 |
| 3. Case study – Assessment and management of a 10 year old school going child with optic atrophy.                     | 7 | 20 | 10 |

**II. Write notes on:**

- |   |   |    |   |
|---|---|----|---|
| 1. Biopic telescope.  | 4 | 10 | 5 |
| 2. Visual acuity assessment in low vision.  | 4 | 10 | 5 |
| 3. Contact lenses in low vision.  | 4 | 10 | 5 |
| 4. Coloboma.  | 4 | 10 | 5 |
| 5. Myopic degeneration.   | 4 | 10 | 5 |
| 6. Retinitis pigmentosa.  | 4 | 10 | 5 |
| 7. Case study – Assessment and management of a 75 year old retired professor with ARMD. | 4 | 10 | 5 |
| 8. CCTV.  | 4 | 10 | 5 |

**III. Short answers on:**

- |   |   |   |   |
|---|---|---|---|
| 1. Working definition of low vision.                          | 2 | 4 | 3 |
| 2. Legal blindness.   | 2 | 4 | 3 |
| 3. Vision Rehabilitation.                                     | 2 | 4 | 3 |
| 4. Contrast Sensitivity.                                      | 2 | 4 | 3 |
| 5. Refraction.  | 2 | 4 | 3 |
| 6. Travel Vision.   | 2 | 4 | 3 |
| 7. History taking in low vision.                              | 2 | 4 | 3 |
| 8. Glare control.   | 2 | 4 | 3 |
| 9. List ocular disorders leading to loss of peripheral field. | 2 | 4 | 3 |
| 10. Visual acuity testing in children.                        | 2 | 4 | 3 |

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[LD 0212]

AUGUST 2013

Sub.Code :6043

**B.SC. OPTOMETRY  
THIRD YEAR  
PAPER III – LOW VISION AIDS  
Q.P. Code: 806043**

**Time: Three hours**

**Answer All questions**

**Maximum : 100 Marks**

**I Elaborate on:**

**(3x10 =30)**

1. Elaborate the guidelines to determining, magnification and selecting low vision aids for distance and near.
2. Explain low vision rehabilitation
3. Non optical devices

**II. Write notes on:**

**(8 x 5 = 40)**

1. Contact Lens combined system in magnification
2. Computer software in low vision
3. Corneal opacity
4. Myopic degeneration
5. Optic atrophy
6. Speech synthesizer and talking books
7. Counseling in low vision
8. Case Study – Assessment and management of a 10 year old child with optic atrophy studying in third standard

**III. Write short answers on:**

**(10 x 3 = 30)**

1. Vision rehabilitation
2. Blindness
3. Define functional vision, totally blind and visual impairment
4. Contrast sensitivity
5. Define disorder, impairment and disability
6. Define magnification and list the different types of magnification
7. History taking in low vision
8. Magnification for near
9. Devices for field enhancement
10. Define rehabilitation and enumerate steps in rehabilitation

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[LE 0212]

**FEBRUARY 2014**  
**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER III – LOW VISION AIDS**  
*Q.P. Code : 806043*

**Sub. Code: 6043**

**Time : Three hours**

**Maximum : 100 marks**

**Answer all questions .**

**I. Elaborate on :**

**(3X10=30)**

1. Management of low vision.
2. What is multidisciplinary team approach in low vision? List the team Members and explain their roles in low vision intervention.
3. Telescopes.

**II. Write notes on:**

**(8X5=40)**

1. Non optical devices.
2. Low vision history.
3. Computer software in low vision.
4. Illumination.
5. Glaucoma.
6. Dislocated or subluxated lens.
7. Counseling in low vision.
8. Vision charts in low vision.

**III. Short answers on:**

**(10X3=30)**

1. Functional Vision.
2. Blindness.
3. Log MAR Charts.
4. Define Albinism.
5. List the tests in low vision examination.
6. Visual impairment.
7. Magnification for distance.
8. List ocular disorders leading to central or para central field loss.
9. Writing guide.
10. Magnification for near.

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[LF 0212]

AUGUST 2014

Sub.Code :6043

**B.Sc. OPTOMETRY  
THIRD YEAR  
PAPER III – LOW VISION AIDS  
Q.P. Code: 806043**

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate common disorders leading to low vision and write in detail on problems and management in Albinism, Optic atrophy and glaucoma.
2. Optical devices.
3. Low vision rehabilitation.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Electro optical devices.
2. Bioptic telescope.
3. Visual acuity assessment in low vision.
4. Contrast Sensitivity.
5. Low vision history.
6. Glare control.
7. Projection magnifier.
8. Environmental modification in low vision.

**III. Write short answers on:**

**(10 x 3 = 30)**

1. Working definition of low vision.
2. Vision Rehabilitation.
3. Travel Vision.
4. Visual acuity testing in children.
5. Define magnification and list different types of magnification.
6. Field enhancement.
7. Define functional vision.
8. Lag MAR charts.
9. Typoscopes.
10. Reading Stand.

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[LG 0215]

**FEBRUARY 2015**  
**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER III – LOW VISION AIDS**  
*Q.P. Code: 806043*

Sub.Code :6043

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define and types of Magnification; Write briefly on stand magnifiers.
2. Non optical devices.
3. Low vision assessment.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Telescopes.
2. Computer software in low vision.
3. Illumination.
4. Glaucoma.
5. Counseling in low vision.
6. Vision charts in low vision.
7. Field loss in low vision.
8. Categories of visual impairment.

**III. Write short answers on:**

**(10 x 3 = 30)**

1. Define Functional Vision.
2. Define Blindness.
3. Log MAR Charts.
4. Large print.
5. List ocular disorders leading to overall blurred vision.
6. Counseling.
7. Pin hole spectacles.
8. Glare.
9. Define Rehabilitation.
10. Define disability.

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[LH 0815]

**AUGUST 2015**  
**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER III – LOW VISION AIDS**  
*Q.P. Code: 806043*

**Sub.Code :6043**

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define low vision Aids write in details about optical devices in low vision.
2. Describe various steps in evaluation of a low vision patient.
3. Enumerate common disorders leading to low vision. Write in detail about problems and management of following conditions:
  - a) Albinism
  - b) Age Related macular degeneration

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write about refraction procedure in low vision patients.
2. Define low vision. Write about WHO classification of low vision.
3. Define Glare. Write about types of glare in low vision.
4. Write about high- plus addition lens in low vision patients.
5. What is Retinitis pigmentosa? How will you manage patients with retinitis pigmentosa?
6. Write about Electro-Optical devices in low vision.
7. Write about magnification consideration in low vision.
8. Write about counselling in low vision patients.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define legal blindness.
2. Define contrast sensitivity.
3. Differentiate keplerian and Galilean Telescope.
4. List the visual acuity charts in low vision.
5. Types of amsler grid chart.
6. Define disorder and impairment.
7. Define magnification.
8. Advantages and disadvantages of stand magnifier.
9. What is glaucoma?
10. Define low vision.

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[LI 0216]

FEBRUARY 2016

Sub.Code :6043

**B.Sc. OPTOMETRY**

**THIRD YEAR**

**PAPER III – LOW VISION AIDS**

*Q.P. Code: 806043*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate members of low vision team and their role in low vision patients.
2. Describe various steps in evaluation of a low vision patients.
3. Define Low vision Aids. Write about Non- Optical devices in Low vision.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Expand WHO? Write about WHO classification of low vision?
2. Write about hand and stand magnifier.
3. Define Albinism How will you manage patients with Albinism?
4. Write about Bi-Optics Telescope.
5. How will you do Refraction in low Vision patients?
6. Write about Relative and Angular Magnification.
7. Define power and magnification. Convert the following value from power to magnification.
  - a) +20 D = --- Magnification.
  - b) +22 D = --- Magnification.
8. Write about High plus addition lenses in low vision.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define glaucoma.
2. Types of Amsler grid chart.
3. Differentiate disorder and impairment.
4. Define Low vision.
5. List the visual acuity charts in low vision.
6. Define Blindness.
7. Reading devices for low vision patient.
8. Define visual field.
9. Define visual Rehabilitation.
10. What is age Related macular degeneration?

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**B.Sc. OPTOMETRY  
THIRD YEAR  
PAPER III – LOW VISION AIDS**

*Q.P. Code: 806043*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

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

1. Mention about guidelines for prescribing low vision aids.
2. Describe optical low vision aids, various types and its basic principles.
3. What in the aim of Non-Optical devices and mention briefly about contrast enhancing devices?

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

1. Classify categories of visual impairment.
2. Causes of low vision in adult and children.
3. What are the special low vision chart for distance and near vision?
4. Mention role of closed circuit television in low vision.
5. Management of central field loss
6. Briefly mention about the evaluation of a patient with low vision.
7. Management of peripheral field loss.
8. Mention briefly about rehabilitation of low vision patient.

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

1. Notex.
2. Brailey.
3. What is the formula for changing the distance from the object to lens?
4. What is the formula for changing the distance from eye and lens?
5. Definition of low vision.
6. Mention about auditory aids.
7. What is fibre tipped pens?
8. Mention about cooking devices for low vision patients.
9. Indication for low vision.
10. What is angular magnification?

[LK 0217]

FEBRUARY 2017

Sub. Code: 6043

**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER III – LOW VISION AIDS**

*Q.P. Code: 806043*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate Common disorders leading to low vision. Write in details about problems and management of the following conditions.
  - (a) Keratoconus
  - (b) Open angle Glaucoma
  - (c) Age related Macular degeneration
2. Electro-optical devices.
3. Assessment and management of a 10 year old school going child with albinism.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Contact lens in low vision.
2. Myopic degeneration.
3. Coloboma iris.
4. Projection magnifier.
5. High plus lens in low vision.
6. WHO Classification of low vision.
7. Field loss in low vision.
8. Low vision History.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Fibre-Tipped pens.
2. Pin hole test.
3. Typoscopes.
4. Amsler grid.
5. Legal blindness.
6. Visual rehabilitation.
7. Angular magnification.
8. Glare Control.
9. Contrast Sensitivity.
10. Working definition of low vision.

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**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER III – LOW VISION AIDS**

*Q.P. Code: 806043*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate Common disorders leading to low vision. Write in details about problems and management of the following conditions.  
(a) Myopia                      (b) Optic atrophy                      (c) Juvenile Glaucoma
2. Enumerate the optics, Uses, advantages, disadvantages of Optical devices.
3. Describe various Steps in the evaluation low vision patients.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Legal blindness.
2. Differentiate disorder and impairment.
3. Large print.
4. Computer Software in low vision.
5. Vision chart in low vision.
6. Write about relative and angular magnification.
7. Explain the stages of visual development.
8. Telescopes.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Functional Vision history taking low vision.
2. Reading devices for low vision Patient.
3. Writing guide.
4. List the perceptual skills.
5. Glare.
6. Central field loss.
7. Write the formula for changing the distance from object to lens.
8. Multi disciplinary team approach.
9. Color vision in low vision.
10. Define power.

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[LM 0218]

FEBRUARY 2018

Sub. Code: 6043

**B.Sc. OPTOMETRY**

**THIRD YEAR**

**PAPER III – LOW VISION AIDS**

*Q.P. Code: 806043*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate Common disorders leading to low vision. Write in details about problems and management of the following conditions.  
(a) Corneal opacity      (b) Albinism      (c) Macular dystrophy
2. Define low vision aids. Write about non – optical devices in low vision.
3. Define and classify magnification. Write briefly on stand magnifiers.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Travel vision.
2. Field enhancement.
3. CCTV.
4. Write about types of glare in low vision.
5. Social blindness.
6. Brailey.
7. Management of peripheral field loss.
8. Bi-optics Telescope.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Refraction.
2. Log Mar Charts.
3. Notex.
4. Types of Nystagmus.
5. Cooking devices for low vision patients.
6. Define disability.
7. Counselling.
8. Explain Categories of low vision.
9. CBR in low vision care.
10. Magnification for near vision.

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[LN 0818]

AUGUST 2018

Sub. Code: 6043

**B.Sc. OPTOMETRY**

**THIRD YEAR**

**PAPER III – LOW VISION AIDS**

*Q.P. Code: 806043*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Enumerate members of low vision team and their role.
2. Define and classify magnification. Write briefly on stand magnifiers.
3. One patient's age is 60 years old and he has come to your clinic with the complaints of distorted central vision. What is the differential diagnosis of this condition? Write in detail about "Age Related macular Degeneration".

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write about types of glare in low vision.
2. Bi-optics Telescope.
3. Management of peripheral field loss.
4. CCTV.
5. Explain the importance of rehabilitation in low vision care.
6. Visual acuity assessment in low vision.
7. Contact lenses in low vision.
8. Contrast Sensitivity.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Refraction in low vision.
2. Log Mar Charts.
3. Travel vision.
4. CBR in low vision care.
5. Visual acuity testing in children.
6. Define Functional Vision.
7. Pinhole spectacles.
8. Differentiate keplarian and Galilean Telescope.
9. Disadvantages of stand magnifier.
10. Mention about auditory aids.

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