

B.OPTOM
(New Syllabus 2015-2016)

THIRD YEAR

PAPER III – LOW VISION AIDS AND CONTACT LENS

Q.P. Code: 802723

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about indication and contraindication of contact lens use.
2. Selection criteria and evaluation of trial lens fitting of soft contact lens.
3. Enumerate common disease condition leading to low vision. explain about the problems and management of optic atrophy, cataract, myopic degeneration.

II. Write notes on:

(8 x 5 = 40)

1. Contact lens fitting in Aphakia.
2. Define magnification and explain the different types of magnification.
3. Properties of ideal contact lens.
4. Define glare. Explain about the types of glare.
5. Write in detail about stabilization technique in soft toric contact lens.
6. Cosmetic contact lenses.
7. Optics of contact lenses.
8. Therapeutic contact lenses.

III. Short answers on:

(10 x 3 = 30)

1. Define oxygen permeability.
2. Properties of contact lens solution.
3. Contact lens fitting in children.
4. Define legal blindness.
5. List out common low vision disorder leading to peripheral vision loss.
6. Bi optic Telescope.
7. Name the deposits on soft contact lens.
8. Extended contact lens.
9. What is hybrid contact lens?
10. Define bandage contact lens.

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I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about non optical devices.
2. Classify contact lenses give their advantages and disadvantages.
3. Discuss in detail about indication and contraindication of contact lens.

II. Write notes on:

(8 x 5 = 40)

1. Electro optical devices.
2. Write in detail about advantages of contact lens over spectacles.
3. Albinism.
4. Terminologies in relation to contact lens.
5. Symptoms of loose fit and tight fit in soft contact lens and its remedy.
6. Disposable contact lenses.
7. Field loss in low vision.
8. Initial patient workup before contact lens fitting.

III. Short answers on:

(10 x 3 = 30)

1. DK value.
2. Disadvantages of PMMA.
3. Define visual impairment.
4. Oxygen permeability.
5. Wetting angle.
6. Taco test.
7. Management of coloboma.
8. Characteristics of a correct contact lens fitting.
9. Chemical disinfection.
10. Define contrast sensitivity.

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

1. Write in detail about contact lens fitting options in keratoconus patient.
2. What are the parameters required and the fitting assessment of an RGP lens?
3. Explain about different types of low vision devices.

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

1. Types of magnification used in low vision.
2. Albinism and its implications in low vision.
3. Fitting of soft toric lenses.
4. Classification of contact lens.
5. Typoscope.
6. Instruction given for a first time contact lens wear.
7. Complications seen in RGP lens wear.
8. Soft contact lens material.

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

1. Define low vision according to WHO.
2. Three difference between Galilean and kapelerian telescope.
3. Define oxygen transmissibility.
4. What is water content?
5. What happens to accommodation and convergence in a contact lens wear?
6. List two indication of bandage contact lens wear.
7. List three advantage of lenses that have iconicity.
8. What is monovision?
9. Name three ways of disinfecting contact lenses.
10. Name three methods for stabilization technique for toric lenses.

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Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail the manufacturing techniques for contact lenses.
2. Elaborate on the contact lens option for presbyopia.
3. Write in detail the examination and evaluation done for a low vision patient.

II. Write notes on:

(8 x 5 = 40)

1. Types of non-optical devices and assistive devices.
2. Optics of low vision devices.
3. FDA classification of contact lenses.
4. Stabilization technique for a soft toric lenses.
5. Static fitting of RGP lens.
6. Explain the physiology of cornea and oxygen supply with a contact lens.
7. Rose K lenses.
8. Rigid lenses insertion and removal.

III. Short answers on:

(10 x 3 = 30)

1. Give three examples of diseases that cause peripheral field defect.
2. Give three advantages of stand magnifier over the hand magnifier.
3. Define sagittal depth and its importance.
4. What is a tear lens?
5. List three important features which an ideal contact lens material should have?
6. List three difference between soft and RGP contact lens.
7. The spectacle prescription is: -2.00Dsp/ -2.25DCx180. If the rotation of the lens is 10 degrees to the left what will the final lens order be.
8. What is piggy back lens?
9. Name three condition which are suitable for therapeutic lens wear?
10. Define base curve. Calculate the base curve for a soft contact lens.
OD : 7.5@180 / 7.45@90.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LR 1220]

**DECEMBER 2020
(AUGUST 2020 EXAM SESSION)**

Sub. Code: 2723

**B.OPTOM
(Regulation from 2015-2016)**

**THIRD YEAR
PAPER III – LOW VISION AIDS AND CONTACT LENS**

Q.P. Code: 802723

Time: Three Hours

Maximum: 100 Marks

Answer all Questions

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2. Elaborate on the Contact Lens option for Presbyopia.
3. Write in detail the examination and evaluation done for a Low Vision patient.

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2. Optics of Low Vision devices.
3. FDA classification of Contact Lenses.
4. Stabilization technique for a Soft Toric Lenses.
5. Static fitting of RGP lens.
6. Explain the physiology of Cornea and Oxygen supply with a Contact Lens.
7. Rose K lenses.
8. Rigid Lenses insertion and removal.

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1. Give Three examples of Diseases that cause Peripheral Field Defect.
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10. Define Base curve. Calculate the Base curve for a Soft Contact Lens.
OD : 7.5@180 / 7.45@90.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0122]

JANUARY 2022

Sub. Code: 2723

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

B.OPTOM

THIRD YEAR (Regulation from 2015-2016)

PAPER III – LOW VISION AIDS AND CONTACT LENS

Q.P. Code: 802723

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about functional assessment of a low vision patient.
2. Write in detail about indications and contraindications for contact lens wear.
3. Write in detail about classification of contact lenses.

II. Write notes on:

(8 x 5 = 40)

1. Management of central visual field defect.
2. Vision charts used for low vision patients.
3. Properties of an ideal contact lens material.
4. Normal corneal physiology – metabolism, nutrition, hydration dynamics.
5. CL manufacturing techniques.
6. Write about the optics of contact lenses.
7. What are the signs, symptoms and characteristics of a steep fitting soft contact lens? How to correct the fit?
8. Toric lens stabilization techniques.

III. Short answers on:

(10 x 3 = 30)

1. Eccentric viewing.
2. Reverse telescope.
3. Oxygen permeability.
4. Disposable contact lenses.
5. Prosthetic contact lenses.
6. Therapeutic contact lenses.
7. Name the instruments needed for contact lens verification.
8. Symptoms of a loose fitting soft contact lens.
9. Push up test.
10. LARS rule.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0922]

SEPTEMBER 2022

Sub. Code: 2723

(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.OPTOM

THIRD YEAR (Regulation from 2015-2016)

PAPER III – LOW VISION AIDS AND CONTACT LENS

Q.P. Code : 802723

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. List the common diseases causing low vision. Discuss the difficulties faced by a patient with Retinitis Pigmentosa and discuss the management.
2. Write in detail the complications of contact lens wear.
3. How do you diagnose a case of keratoconus? List the various contact lens options available.

II. Write notes on:

(8 x 5 = 40)

1. Indications for contact lens.
2. Write the optics of contact lens.
3. Therapeutic contact lens.
4. Discuss the types of cleaning solutions for contact lens.
5. Explain the types of vision charts used to test low vision.
6. What is contrast sensitivity? Explain the charts available to check contrast sensitivity.
7. Stabilization technique in soft toric contact lens.
8. Clinical features and management of albinism.

III. Short answers on:

(10 x 3 = 30)

1. Legal blindness.
2. Write two diseases causing peripheral vision loss.
3. Amsler grid.
4. Name two non-optical low vision aids.
5. Layers of tear film.
6. Write two eyelid contraindications for CL wear.
7. Name two soft contact lens materials.
8. Features of flat fit contact lens.
9. What is base curve?
10. What is giant papillary conjunctivitis?
