

**August 2011**

**[KZ 0811]**

**Sub. Code: 6042**

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

**THIRD YEAR**

**Paper II – GLAUCOMA**

***Q.P. Code : 806042***

**Time : Three hours**

**Maximum : 100 marks**

**Answer All questions.**

**I. Elaborate on :**

**(3 x 10 = 30)**

1. Draw and describe types of Field Defects in Primary Open Angle Glaucoma (POAG).
2. Definition of Glaucoma. Classification of Glaucoma.  
Diagram & description of Aqueous Humor dynamics.
3. Define IOP and methods of measurement of IOP.

**II. Write notes on :**

**(8 x 5 = 40)**

1. Stages of Primary Narrow Angle Glaucoma (PNAG).
2. Buphthalmos.
3. YAG PI.
4. Humphrey Field Analyzer (HFA).
5. Diagram & description of angle structures.
6. Classification of Anti-glaucoma drugs.
7. Secondary Glaucomas – Open & Closed.
8. Surgical management of Glaucoma.

**III. Short Answers on :**

**(10 x 3 = 30)**

1. Gonioscopy - Types
2. Malignant Glaucoma.
3. Management of Congenital Glaucoma.
4. Optical Coherence Tomography (OCT).
5. Evaluation of Glaucoma suspect.
6. Central corneal thickness (CCT).
7. Timolol maleate.
8. Epidemiology of Glaucoma.
9. Recent advances in Glaucoma.
10. History taking in glaucoma (POAG & PNAG).

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[LD 0212]

**AUGUST 2013**  
**B.SC. OPTOMETRY**  
**THIRD YEAR**  
**PAPER II – GLAUCOMA**  
**Q.P. Code: 806042**

**Sub.Code :6042**

**Time: Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

**I. Elaborate on :**

**(3 X 10 = 30)**

1. Define intraocular pressure. Write briefly about the methods of IOP measurement and the influencing factors
2. What are the stages, clinical features and management of Primary Narrow Angle Glaucoma (PNAG).
3. Classify secondary glaucomas. Write briefly about the various types and mechanism of lens induced glaucoma.

**II. Write Notes on:**

**(8 X 5 = 40)**

1. Evaluation of glaucoma suspect
2. Draw a diagram of gonioscopic view of angle structures and give the principle of gonioscopy
3. Neovascular glaucoma
4. Beta blockers in glaucoma
5. Glaucoma drainage devices
6. Aqueous humour dynamics
7. Surgical management of glaucoma
8. Ultrasound biomicroscopy (UBM)

**III. Short Answers on:**

**(10 X 3 = 30)**

1. Ocular hypertension
2. Pilocarpine
3. Acetazolamide
4. Yag peripheral iridotomy
5. Pigmentary glaucoma
6. Central corneal thickness
7. Working principle of Goldmann Applanation Tonometer
8. Humphrey Field Analyzer
9. Axenfeld Rieger Syndrome
10. Absolute glaucoma

[LF 0212]

AUGUST 2014

Sub.Code :6042

**THIRD YEAR - B.SC. OPTOMETRY  
PAPER II – GLAUCOMA**

*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum : 100 marks**

**Answer All Questions.**

**I. Elaborate on :**

**(3x10=30)**

1. Classify tonometer. Write in detail about applanation tonometry.
2. Stages, clinical features and management of Primary Narrow Angle Glaucoma (PNAG).
3. Give the various field defects in glaucoma with diagram.

**II. Write Notes on:**

**(8x5=40)**

1. Neovascular glaucoma
2. Trabeculectomy
3. Signs and symptoms of congenital glaucoma
4. RNFL protocols in Optical Coherence Tomography (OCT).
5. Schiottz Tonometry
6. Diagram and descriptions of angle structure
7. Beta Blockers in Glaucoma
8. Role of UBM in Glaucoma

**III. Short Answers on:**

**(10x3=30)**

1. Goniotomy.
2. Central corneal thickness (CCT).
3. Pilocarpine
4. Epidemiology of Glaucoma.
5. Evaluation of Glaucoma suspect
6. Optic Nerve Head changes in Glaucoma
7. Name two oral medications and their dosage for glaucoma
8. Name three surgeries done for glaucoma
9. Give the names of tonometers
10. Factors responsible for maintenance of Intraocular Pressure

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[LG 0215]

FEBRUARY 2015

Sub.Code: 6042

**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER II – GLAUCOMA**  
*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer All Questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classification, mechanism of action and side effects of antiglaucoma medications.
2. Define Glaucoma. Give the classification of Glaucoma. Add a note on Aqueous Humor dynamics.
3. Give the principle of Gonioscopy and describe in detail the structure seen on Gonioscopy with interpretation of the results.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Stages of Primary Narrow Angle Glaucoma (PNAG).
2. Buphthalmos.
3. Humphrey Field Analyzer (HFA).
4. Field defects in glaucoma.
5. Role of OCT in glaucoma.
6. Pigmentary glaucoma.
7. Malignant Glaucoma.
8. Surgical management of Glaucoma.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Evaluation of Glaucoma suspect.
2. Management of Absolute Glaucoma.
3. Non contact tonometry.
4. Causes of secondary glaucoma.
5. Significance of central corneal thickness (CCT).
6. Imbert – Fick's law.
7. Name three valves used in filtering surgery.
8. History taking in glaucoma (POAG and PNAG).
9. Give three clinical features of neovascular glaucoma.
10. Intra ocular pressure.

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[LH 0815]

AUGUST 2015

Sub.Code: 6042

B.Sc. OPTOMETRY

THIRD YEAR

PAPER II – GLAUCOMA

*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer All Questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What are the stages, clinical features and management of Primary Open Angle Glaucoma (POAG)?
2. Give the various field defects in glaucoma with diagram.
3. Definition of Glaucoma. Classification of Glaucoma.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Aqueous humour dynamics.
2. Schiotz Tonometry.
3. Surgical management of Glaucoma.
4. Stages of Primary Narrow Angle Glaucoma (PNAG).
5. Buphthalmos.
6. Pigmentary glaucoma.
7. Humphrey Field Analyzer (HFA).
8. Signs and symptoms of congenital glaucoma.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Management of Congenital Glaucoma.
2. Traumatic Glaucoma.
3. Goniotomy.
4. Epidemiology of Glaucoma.
5. History taking in glaucoma. (POAG and PNAG)
6. Malignant Glaucoma.
7. Acetazolamide.
8. Absolute glaucoma.
9. Ocular hypertension.
10. Factors responsible for maintenance of Intraocular Pressure.

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[LI 0216]

FEBRUARY 2016

Sub.Code: 6042

**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER II – GLAUCOMA**  
*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer All Questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What are the stages, clinical features and management of Primary Narrow Angle Glaucoma (PNAG)?
2. Define IOP and methods of measurement of IOP.
3. Diagram and description of angle structures.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Evaluation of glaucoma suspect.
2. Neovascular glaucoma.
3. Surgical management of Glaucoma.
4. Secondary Glaucomas – Open and Closed.
5. Grading of angle of anterior chamber.
6. Schiotz Tonometry.
7. Field defects in glaucoma.
8. Aqueous humour dynamics.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Absolute glaucoma.
2. Pilocarpine.
3. Epidemiology of Glaucoma.
4. Recent advances in Glaucoma.
5. Yag peripheral iridotomy.
6. Central corneal thickness.
7. Axenfeld Rieger Syndrome.
8. Optic nerve head changes in Glaucoma.
9. Normal Tension glaucoma.
10. Traumatic Glaucoma.

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[LJ 0816]

AUGUST 2016

Sub.Code: 6042

**B.Sc. OPTOMETRY  
THIRD YEAR  
PAPER II – GLAUCOMA**

*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer All Questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Definition and classification of glaucoma.
2. Secondary angle closure glaucoma.
3. Optic nerve head analysis.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. History taking in glaucoma.
2. Write about tonometers, with a note on Goldman applanation tonometer.
3. Functions of aqueous humor.
4. Pigmentary glaucoma.
5. Indications and contraindications for gonioscopy.
6. Clinical evaluation in glaucoma.
7. HFA.
8. Plateau iris.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Goniotomy.
2. Cup disc ratio.
3. Extent of visual field in degrees.
4. Gonioscopy.
5. Intraocular pressure.
6. Role of heredity in glaucoma.
7. Classical sign on congenital glaucoma.
8. Beta blockers.
9. Axenfeld Rieger syndrome.
10. Confrontation test.

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[LK 0217]

FEBRUARY 2017

Sub.Code: 6042

**B.Sc. OPTOMETRY**

**THIRD YEAR**

**PAPER II – GLAUCOMA**

*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer All Questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Primary open angle glaucoma.
2. Childhood glaucoma.
3. Gonioscopy.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Phacolytic glaucoma.
2. Neovascular glaucoma.
3. Pupillary block.
4. Surgical options in glaucoma.
5. Factors influencing intraocular pressure.
6. Types of tonometers.
7. Aqueous humor dynamics.
8. Epidemiology of glaucoma.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Isopter.
2. Lamellar dot sign.
3. Baring of blind spot.
4. False positive in HFA.
5. Perkins tonometer.
6. Sampaolesi line.
7. Arcuate scotoma.
8. Water drinking test.
9. Cholinergic drugs.
10. Steroid induced glaucoma.

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[LL 0817]

AUGUST 2017

Sub. Code: 6042

**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER II – GLAUCOMA**

*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Give the various field defects in glaucoma with diagram.
2. Define glaucoma and classify the different types of glaucoma.
3. Explain about the stages, clinical features and management of Primary Open Angle Glaucoma(POAG).

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain about Schiotz Tonometry.
2. Write in detail the surgical management of glaucoma.
3. Explain about secondary glaucoma and list its causes.
4. Write about malignant glaucoma.
5. List clinical features of Primary Narrow Angle Glaucoma (PNAG).
6. List the indications and contraindications for gonioscopy.
7. Write about Aqueous humour dynamics.
8. Write about Buphthalmos.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Write in short about absolute glaucoma.
2. Write about the recent advances in Glaucoma.
3. Explain Yag peripheral iridotomy.
4. State Imbert – Fick's law.
5. Explain about Normal Tension glaucoma.
6. Explain about Intraocular pressure.
7. List symptoms of congenital glaucoma.
8. Write about non contact tonometry.
9. Explain Pigmentary glaucoma.
10. List common surgeries done for glaucoma.

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[LM 0218]

FEBRUARY 2018

Sub. Code: 6042

**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER II – GLAUCOMA**

*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify secondary glaucomas. Write briefly about the various types and mechanism of lens induced glaucoma.
2. Classify tonometer. Write in detail about applanation tonometry.
3. What are the stages, clinical features and management of Primary Narrow Angle Glaucoma (PNAG)?

**II. Write notes on:**

**(8 x 5 = 40)**

1. List stages of Primary Open Angle Glaucoma (POAG).
2. Classify antiglaucoma medications.
3. Explain about Glaucoma drainage devices.
4. Write about collecting history and evaluation of Glaucoma suspect.
5. Write about Schiotz Tonometry.
6. Explain about Aqueous humour dynamics.
7. Explain grading of angle of anterior chamber.
8. Write about neovascular glaucoma.

**III. Short answers on:**

**(10 x 3 = 30)**

1. What is Pilocarpine?
2. Write about traumatic Glaucoma.
3. Explain central corneal thickness.
4. Write about the Humphrey Field Analyzer.
5. Explain causes of ocular hypertension.
6. What are the Optic Nerve Head changes in Glaucoma?
7. Explain about Goniotomy.
8. Write about Confrontation test.
9. What is Cup disc ratio? Explain.
10. Write about Yag peripheral iridotomy.

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[LN 0818]

AUGUST 2018

Sub. Code: 6042

**B.Sc. OPTOMETRY**  
**THIRD YEAR**  
**PAPER II – GLAUCOMA**

*Q.P. Code: 806042*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define Intra Ocular Pressure (IOP) and explain the methods of measurement of IOP.
2. Give the various field defects in glaucoma with diagram.
3. Classify tonometer. Write in detail about applanation tonometry.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are the side effects of anti glaucoma medications?
2. Write about YAG PI.
3. Explain about Humphrey Field Analyzer.
4. Explain lens induced glaucoma.
5. Write about Beta blockers in glaucoma.
6. Explain about Ultrasound biomicroscopy (UBM).
7. Write in detail about Buphthalmos.
8. Explain about secondary glaucomas.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Write about Goldman applanation tonometer.
2. Is there a role of heredity in glaucoma? Explain.
3. Explain Optical Coherence Tomography.
4. Write about Axenfeld Rieger Syndrome.
5. List clinical features of neovascular glaucoma.
6. Write about normal Tension glaucoma.
7. List three valves used in filtering surgery.
8. Write about Congenital Glaucoma in brief.
9. Write about Pilocarpine.
10. Write about epidemiology of Glaucoma.

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