

[LL 1017]

OCTOBER 2017

Sub. Code: 1612

**M. OPTOM EXAMS
SECOND YEAR
PAPER II – EVIDENCE BASED OPTOMETRY**

Q.P. Code: 281612

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Write in detail about manufacturing of plastic lenses, its types and characteristics.
2. Write in detail about special measurements for fitting special lenses – Bifocals, multi-focals and prism lenses.

II. Write notes on: **(10 x 6 = 60)**

1. Monocells and ptosis crutches.
2. IPD measurement for distance and near.
3. High Index lenses.
4. Bifocal design.
5. Frame material advantage and disadvantage.
6. Polaroid lens.
7. Tinted lenses.
8. Classify frames.
9. Anti-reflection coating.
10. Spectacle magnification.

[LM 0518]

MAY 2018

Sub. Code: 1612

**M. OPTOM EXAMS
SECOND YEAR
PAPER II – EVIDENCE BASED OPTOMETRY**

Q.P. Code: 281612

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Write in detail about manufacturing of Polarized lenses, and its various applications in Spectacle lenses. Also discuss on dispensing Polarizing lenses according to the various needs.
2. Discuss various types of Ghost images arising out of the Spectacle Lens Surface in detail with neat diagram. Also discuss about its effects with various prescriptions.

II. Write notes on: **(10 x 6 = 60)**

1. Write in short about Toric lenses and its image formation.
2. Derive Abbe value and discuss on its significance.
3. Write in short about chromatic Aberration. And its effect on spectacle lenses.
4. Write in short about Fused Kryptok Bifocal lenses.
5. Write in short about Hard Coating.
6. Discuss the importance of Pantoscopic Tilt.
7. Differentiate between Specific Gravity and Density of the Spectacle Lenses.
8. Write in short about the characteristics of CR 39 lenses.
9. Write in short about Pupillometer.
10. Selections of frames for high plus lenses.

[LN 1018]

OCTOBER 2018

Sub. Code: 1612

**M. OPTOM EXAMS
SECOND YEAR
PAPER II – EVIDENCE BASED OPTOMETRY**

Q.P. Code: 281612

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Write in detail about the Ghost Images and its effect in different Ophthalmic prescriptions. Elaborate on Anti-Reflection Coating-Working Principle, & manufacturing.
2. Write in detail about various types of Lenticular Lenses with its advantages and dis-advantages. Also discuss on Blended Lenticulars.

II. Write notes on: **(10 x 6 = 60)**

1. Write in short about the Polarising filters.
2. Write in detail about the different types spectacle frame materials and its unique characteristics
3. Draw the boxing system for frame measurements and name each of it.
4. Steel ball Drop Test.
5. Recumbent Prism with diagram
6. Fresnel Lenses
7. Mirror Coating
8. Significance of Pantoscopic Tilt.
9. Derive Abbe Value and discuss on its significance.
10. Selections of frames for high plus lenses.

[LO 0519]

MAY 2019

Sub. Code: 1612

**M. OPTOM EXAMS
SECOND YEAR
PAPER II – EVIDENCE BASED OPTOMETRY**

Q.P. Code: 281612

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail on the frame and facial measurements.
2. Briefly explain on 4 types of bifocals. Write in detail on the segment terminologies used in bifocals with diagram.

II. Write notes on:

(10 x 6 = 60)

1. Methods for Inspection of lenses.
2. Individual batch method in glass lens manufacturing.
3. What are the optical properties of plastic lenses – CR 39?
4. Detail on the process of surfacing in finished lenses.
5. Give the types of hardening of lenses.
6. Explain on Lens mounting in detail with diagram.
7. What are symmetric PAL?
8. Explain on harmful effects of IR radiation on eye.
9. Write in detail on the advantages of polarising filter.
10. Write on Abbe number of lenses.

[LP 1019]

OCTOBER 2019

Sub. Code: 1612

**M. OPTOM EXAMS
SECOND YEAR
PAPER II – EVIDENCE BASED OPTOMETRY**

Q.P. Code: 281612

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Write an essay on spectacle frames – materials, measurement and marking.
2. Write an essay on Anti reflective coating of lenses – lens reflections, theory, manufacturing and care of the Anti reflective coated lenses.

II. Write notes on: **(10 x 6 = 60)**

1. Measurement of interpupillary distance.
2. Fresnel prisms.
3. Special purpose frames.
4. Safety eye wear.
5. Effect of prescribed prism on progressive addition lenses.
6. Aspheric lenses.
7. Photochromic lenses.
8. High minus lens designs.
9. Abbe value.
10. Faults in lenses.

[LQ 1019]

NOVEMBER 2020
(MAY 2020 EXAM SESSION)

Sub. Code: 1612

**M. OPTOM
SECOND YEAR
PAPER II – EVIDENCE BASED OPTOMETRY**

Q.P. Code: 281612

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about Manufacturing of Plastic Lenses, its types and characteristics.
2. Write in detail on Spectacle Frames – materials, measurement and marking.

II. Write notes on:

(10 x 6 = 60)

1. Safety eye wear.
2. Aspheric Lenses.
3. High Minus lens designs.
4. Fresnel Prisms.
5. Spectacle magnification.
6. Photochromatic lenses.
7. Abbe Value.
8. Types of Human Faces.
9. Discuss the importance of Pantoscopic Tilt.
10. Write in short about Pupilometer.
