

[LB 0212]

AUGUST 2012

Sub. Code: 1501

DIPLOMA IN OPTOMETRY TECHNOLOGY

FIRST YEAR

PAPER I – OCULAR ANATOMY & PHYSIOLOGY

Q.P. Code : 841501

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. Describe the general features, microscopic features and functions of cornea. | 7 | 20 | 10 |
| 2. Define binocular vision and describe the grades of binocular single vision. | 7 | 20 | 10 |
| 3. Describe the extra ocular muscles in detail. Add a note on its action. | 7 | 20 | 10 |

II. Write Notes on:

- | | | | |
|---------------------------------------|---|---|---|
| 1. Blepharospasm. | 4 | 9 | 5 |
| 2. Conjunctiva. | 4 | 9 | 5 |
| 3. Layers of retina. | 4 | 9 | 5 |
| 4. Accommodation reflex. | 4 | 9 | 5 |
| 5. Wald's visual cycle. | 4 | 9 | 5 |
| 6. Development of crystalline lens. | 4 | 9 | 5 |
| 7. Intraocular pressure. | 4 | 9 | 5 |
| 8. Chemical composition of tear film. | 4 | 9 | 5 |
| 9. Angle of anterior chamber. | 4 | 9 | 5 |
| 10. Entoptic phenomena. | 4 | 9 | 5 |

III. Short Answers on:

- | | | | |
|--|---|---|---|
| 1. What is scleral spur? | 1 | 3 | 2 |
| 2. What is macular vision? | 1 | 3 | 2 |
| 3. What is visual acuity? | 1 | 3 | 2 |
| 4. Name the segments of eyeball. | 1 | 3 | 2 |
| 5. What is achromatopsia? | 1 | 3 | 2 |
| 6. What is photopic vision? | 1 | 3 | 2 |
| 7. What is mydriasis? Give examples for sympathomimetic drugs. | 1 | 3 | 2 |
| 8. What is visually evoked potential? | 1 | 3 | 2 |
| 9. What is optic radiation? | 1 | 3 | 2 |
| 10. Name the glands of the eyelids. | 1 | 3 | 2 |

[LC 0212]

FEBRUARY 2013

Sub. Code: 1501

DIPLOMA IN OPTOMETRY TECHNOLOGY

FIRST YEAR

PAPER I – OCULAR ANATOMY & PHYSIOLOGY

Q.P. Code : 841501

Time : Three hours

Maximum : 100 marks

Answer ALL questions .

I. Elaborate on:

(3x10=30)

1. Anatomy of upper eye lid.
2. Physiology of binocular single vision.
3. Actions of Extra ocular muscles.

II. Write Notes on:

(10x5=50)

1. Electro retinogram.
2. Factors responsible for corneal transparency.
3. Anatomy of lacrimal drainage system.
4. Anatomy of optic nerve.
5. Circulation of aqueous humour.
6. Structure of sclera.
7. Range of accommodation.
8. Functions of tears.
9. Types of pupillary reflexes.
10. Physiology of dark adaptaion.

III. Short Answers on:

(10x2=20)

1. Boundaries of anterior chamber.
2. Situation and nerve supply of sphincter pupillae muscle.
3. Anatomy of macula lutea.
4. Parts of conjunctiva.
5. Insertions of recti muscles.
6. Hering's theory of colour vision.
7. Factors responsible for transparency of lens.
8. Name the accessory lacrimal glands.
9. What is rhodopsin?
10. Origin , insertion and action of Muller's muscle.

[LD 0212]

AUGUST 2013
DIPLOMA IN OPTOMETRY TECHNOLOGY
FIRST YEAR
PAPER I – OCULAR ANATOMY & PHYSIOLOGY
Q.P. Code : 841501

Sub. Code: 1501

Time: 3 hours

Maximum: 100 marks

Answer all Questions

I. Elaborate on: **(3x10=30)**

1. Trace the visual pathway
2. Dimensions, layers and histology of cornea
3. Photochemical changes occurring in retina when light falls on retina

II. Write notes on: **(10x5=50)**

1. Anatomy of ciliary body
2. Anatomy of vitreous humour
3. Origin, insertion, and nerve supply of levator palpebrae superioris
4. Distance correction of Snellen's test
5. Visually evoked potential
6. Tests for contrast sensitivity
7. Physiology of aqueous humour formation
8. Binocular eye movements
9. Grades of binocular single vision
10. Functions of lid

III. Short answers on: **(10x2=20)**

1. What is ora-serata?
2. What is Tenon's capsule
3. What is posterior chamber
4. Actions of inferior oblique muscle
5. What is intra ocular pressure?
6. Near vision acuity tests
7. Circulations of tears
8. What is palpebral fissure?
9. What is scotopic vision
10. Insertions of recti muscles with respect to limbus
