

[LK 0217]

FEBRUARY 2017

Sub.Code :2702

B. OPTOM
(New Syllabus 2015-2016)

FIRST YEAR

PAPER II – OCULAR ANATOMY AND OCULAR PHYSIOLOGY

Q.P. Code: 802702

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Formation of aqueous humour.
2. Extra ocular muscles-origin, insertion, nerve supply and actions.
3. Layer of retina with labeled diagram.

II. Write notes on:

(8 x 5 = 40)

1. Jones test.
2. Congenital colour vision defects.
3. Worth four dot test.
4. Electro oculagram (EOG).
5. Anatomy of upper eyelid with diagram.
6. Describe and draw the lacrimal apparatus.
7. Draw and name parts of visual pathway.
8. Draw structure of eye ball and name its part.

III. Short answers on:

(10 x 3 = 30)

1. Name the factors which influence intra ocular pressure (IOP).
2. Horner's Syndrome.
3. Define panum's space.
4. Name the uses of visually evoked response (VER).
5. Functions of tear film.
6. Name of parts of ciliary body.
7. Name primary, secondary and tertiary actions of inferior oblique muscle.
8. Structure of cone cell and label the parts.
9. Dioptric power of eyeball, lens, cornea.
10. Name muscles in the upper eyelid.

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Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the anatomy of extra ocular muscles with nerve supply, blood supply and its actions.
2. Describe the anatomy of Cornea and Maintenance of Corneal transparency.
3. Explain the visual pathway diagrammatically, the visual fibres and various lesions of visual pathway.

II. Write notes on:

(8 x 5 = 40)

1. Write notes on Binocular vision.
2. Explain the maintenance of Intraocular pressure.
3. Explain the various tests of colour vision defects.
4. Explain with diagram the structure and function of rods and cone cells.
5. Explain visual evoked potential.
6. Explain the primary, secondary and tertiary actions of inferior oblique muscle.
7. Explain Aqueous humour outflow system with diagram.
8. Explain the layers and parts of eyelids.

III. Short answers on:

(10 x 3 = 30)

1. Explain the muscles of Iris.
2. Write notes on vergence and duction movements of extra ocular muscles.
3. What is Entoptic phenomena?
4. What is regurgitation test?
5. Explain accommodation.
6. Explain the development of lens.
7. What is Electroretinogram?
8. Explain grades of Binocular vision.
9. Name the bones forming the orbital walls.
10. Draw and name the parts of lacrimal system.

[LM 0218]

FEBRUARY 2018

Sub. Code: 2702

B. OPTOM
(New Syllabus 2015-2016)

FIRST YEAR

PAPER II – OCULAR ANATOMY AND OCULAR PHYSIOLOGY

Q.P. Code: 802702

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about various layers of retina with labelled diagram.
2. Explain visual pathway diagrammatically and explain completely various lesions of Visual Pathway.
3. Describe anatomy of lacrimal system and drainage of tears and applied anatomy.

II. Write notes on:

(8 x 5 = 40)

1. Write in detail about the formation of Aqueous Humour.
2. Explain Binocular vision.
3. Explain structure of lens.
4. Write the theories of colour vision.
5. Explain with diagram of visual cycle.
6. Write about levator palpebral superiolis and Orbicularis Oculi.
7. What is Entoptic phenoma?
8. Explain Accommodation.

III. Short answers on:

(10 x 3 = 30)

1. Explain papillary reflexes.
2. Write about Macular lutea.
3. Write on vision assessment in children.
4. Explain the layers of cornea.
5. Write on contents of orbit.
6. Explain visual evoked potential.
7. Write about the tests of lacrimal tea secretion.
8. What are yolk muscles?
9. Explain various types of Vergences.
10. List out the parts of Uvea.

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FIRST YEAR

PAPER II – OCULAR ANATOMY AND OCULAR PHYSIOLOGY

Q.P. Code: 802702

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe anatomy of extra ocular muscles with nerve supply, blood supply and actions.
2. Explain with diagram, the anatomy of angle of Anterior chamber of eye and maintenance of Intraocular pressure.
3. Explain the visual pathway diagrammatically. Write in detail about the course of the visual fibres.

II. Write notes on:

(8 x 5 = 40)

1. Explain the various layers of eyelids.
2. Explain Hering's Law and Sherrington's law of Innervation.
3. Explain about Wald's Visual Cycle.
4. Explain Electroretinogram.
5. Write notes on surgical spaces of Orbit.
6. Explain the various tests of colour vision.
7. Explain the various layers of cornea with diagram.
8. Name the primary, secondary and tertiary actions of superior oblique muscle.

III. Short answers on:

(10 x 3 = 30)

1. What is Presbyopia?
2. Write the Grades of Binocular Vision.
3. Write about dark adaptation.
4. Explain Schirmer test I and II.
5. What is macula lutea?
6. Explain the vision assessment in children.
7. Explain pupillary reflexes.
8. What is Blepharospasm?
9. Write the dioptric power of eyeball lens and cornea.
10. Write on various eye movements of the eyelids.

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Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Extraocular muscles – nerve supply, origin and insertion, blood supply and actions.
2. Anatomy of angle of anterior chamber and maintenance of IOP.
3. Maintenance of corneal transparency.

II. Write notes on:

(8 x 5 = 40)

1. Tear film.
2. Draw and name the layers of retina.
3. Orbital walls.
4. What is electro retinogram? Write its components and its uses.
5. Accommodation and theories of accommodation.
6. Theories of colour vision.
7. Parts and functions of uveal tract.
8. Layers of eyelid.

III. Short answers on:

(10 x 3 = 30)

1. Entoptic phenomenon.
2. Name the structures passing through the superior orbital fissure.
3. Tests for lacrimal secretion.
4. Presbyopia.
5. Pupillary reflexes.
6. Dioptric power of eyeball, lens, cornea.
7. Muscles of Iris.
8. Grades of binocular vision.
9. Name the parts of lacrimal system.
10. What is macula lutea?

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Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Visual acuity testing.
2. What is intraocular pressure – normal range and maintenance?
Write about instruments used to measure IOP.
3. Layers of retina with labeled diagram.

II. Write notes on:

(8 x 5 = 40)

1. Colour vision testing and defects.
2. Notes on binocular single vision.
3. Layer of cornea and functions.
4. Extraocular movements – versions and vergences.
5. Structure of lens.
6. Pupillary reflexes and pathway.
7. Accommodation.
8. Functions and composition of tear film.

III. Short answers on:

(10 x 3 = 30)

1. Parts of ciliary body.
2. Hering's and Sherrington's law.
3. Endothelial pump.
4. Macula lutea.
5. Dark and Light adaptation.
6. Contrast sensitivity.
7. Presbyopia.
8. Schirmer's test.
9. Vitreous humor.
10. Muscles of iris.

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Q.P. Code: 802702

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the visual pathway.
2. Anatomy of lacrimal system and drainage of tears.
3. Draw a diagram of crystalline lens and discuss about its anatomy.

II. Write notes on:

(8 x 5 = 40)

1. Electro oculogram.
2. Tests for binocular single vision.
3. Write a note on the structures passing through superior orbital fissure with neat diagram.
4. Wald's visual cycle.
5. Pupillary reflexes.
6. Extraocular muscles and their actions.
7. Tests for dry eyes.
8. Surgical spaces of orbit.

III. Short answers on:

(10 x 3 = 30)

1. Vision assessment in children.
2. Write any three tests for colour vision.
3. Cranial nerves supplying the eyeball and adnexa.
4. Parts of uveal tract.
5. Write briefly on the factors responsible for corneal transparency.
6. Bones forming the walls of orbit.
7. Layers of eyelid.
8. Angle of anterior chamber.
9. Worth four dot test.
10. Grades of binocular vision.
