MANIPAL ACADEMY OF HIGHER EDUCATION

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2018

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Monday, April 02, 2018

Time: 14:00 – 17:00 Hrs.   Max. Marks: 100

✍ **Answer ALL the questions with the help of diagrams wherever necessary.**

✍ **Essay Questions.**

1. Write in detail about the anatomy of retina.

(15 marks)

2. Discuss accommodation reflex.

(15 marks)

3. **Write briefly on:**

3A. Blood supply of the visual pathway
3B. Role of antihistamines in ophthalmology
3C. Galactosemia
3D. Histopathology of trachoma
3E. Wald's visual cycle
3F. Streak retinoscope
3G. Snellen's chart
3H. Vitreous substitutes
3I. Dendritic keratitis
3J. Elisa test

(7 marks × 10 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2018

SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY

Tuesday, April 03, 2018

Time: 14:00 – 17:00 Hrs.   Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Draw neat diagrams wherever necessary.**

✍ **Long Essay:**

1. Discuss the clinical features and management of Herpes zoster ophthalmicus.

(15 marks)

2. Discuss the management of chemical burns of the eye.

(15 marks)

3. **Short Essay questions:**

3A. Deep anterior lamellar keratoplasty

3B. Toxocara retino choroiditis

3C. Posterior scleritis

3D. Glaucomatocyclitic crisis

3E. Intermittent exotropia

3F. Prostaglandin analogues in ophthalmology

3G. Management of central retinal vein occlusion

3H. Orbital mucormycosis

3I. Siderosis bulbi

3J. Brown's syndrome

(7 marks × 10 = 70 marks)

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✎   **Answer ALL the questions.**

✎   **Draw neat and labeled diagram wherever necessary.**

✎   **Essay Questions:**

1.   Discuss the causes, clinical features and management of subluxated cataractous lens.

(15 marks)

2.   Discuss the causes and management of shallow anterior chamber following trabeculectomy.

(15 marks)

3.   **Short answer questions:**

3A.   Discuss the indication, types and steps of exenteration.

3B.   Discuss briefly the intracameral drugs used during cataract surgery.

3C.   Describe Microphacoemulsification (microphaco).

3D.   Discuss technique, indications and advantages of toric Intra ocular lens (IOL).

3E.   Discuss the indications for penetrating keratoplasty. Add a note on use of femtosecond laser in keratoplasty.

3F.   Discuss the international classification of retinoblastoma.

3G.   Discuss the surgical correction of severe ptosis.

3H.   Describe your approach to a patient with binocular diplopia.

3I.   Discuss the ocular features of systemic lupus erythematosus (SLE).

3J.   Discuss the causes of ring scotoma.

(7 marks × 10 = 70 marks)

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MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2018

SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY

Thursday, April 05, 2018

Time: 14:00 – 17:00 Hrs.   Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. What is the principle of Optical Coherence Tomography? What are the types of OCTs available? What are the diagnostic and therapeutic uses of OCT in management of ma cula lesions?

(15 marks)

2. What are femtosecond LASERs? What are the current indications of femtosecond lasers?

(15 marks)

3. **Short answer questions:**

3A. Discuss role of anti VEGF (Vascular Endothelial growth factor) in ocular diseases.

3B. Discuss newer treatment options in keratoconus.

3C. Discuss the newer intra ocular lenses.

3D. Discuss the recent advances in the management of paediatric cataract.

3E. Discuss the newer concepts in the treatment of dry eye syndrome.

3F. Discuss releasable sutures.

3G. Discuss treatment modalities for congenital ptosis.

3H. Discuss IndoCyanine Green Angiography.

3I. Discuss complications in endothelial keratoplasty.

3J. Discuss newer concepts in the treatment of open angle glaucoma.

(7 marks × 10 = 70 marks)

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