MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2014 SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Tuesday, April 01, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Draw neat, labeled diagrams wherever necessary.

Health Sciences Library

- & Long Essay.
- 1. Describe the Anatomy and Development of Angle of Anterior chamber. Add a note on the different methods of grading of Anterior Chamber Angle by Gonioscopy.

(15 marks)

2. Discuss the factors responsible for Corneal transparency. Add a note on Corneal wound healing.

(15 marks)

- 3. Write short notes on:
- 3A. Tests for Retinal Correspondence
- 3B. Olopatadine hydrochloride
- 3C. Prisms in Ophthalmology
- 3D. Development of the Lens and Rubella cataract
- 3E. Rod Phototransduction
- 3F. Genetics of Retinoblastoma
- 3G. Jackson Cross-Cylinder
- 3H. Panum's Area
- 3I. Gram Stain
- 3J. Histopathology of Choroidal Melanoma and its significance

 $(7 \times 10 = 70 \text{ marks})$



MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2014 SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY

Wednesday, April 02, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.

Health Sciences Library

- Long Essays.
- 1. Discuss the predisposing factors, clinical features and management of an acute Rhegmatogenous Retinal Detachment.

(15 marks)

2. Discuss the patho-physiology, clinical features and management of acute Primary Angle Closure Glaucoma.

(15 marks)

- 3. Write short notes on:
- 3A. Discuss the clinical features and the management of Acanthamoeba Keratitis
- 3B. Discuss the grading and management of Alkali Burns to the eye
- 3C. Discuss the clinical features and management of Orbital Compartment Syndrome
- 3D. Ocular Toxoplasmosis
- 3E. Brown Syndrome (Superior Oblique tendon sheath syndrome)
- 3F. What is Amblyopia? Discuss the management principles of Strabismic Amblyopia
- 3G. Discuss the evaluation and management of Congenital Ptosis
- 3H. Eye Banking
- 3I. Vision 2020
- 3J. Ophthalmia Neonatorum

 $(7 \times 10 = 70 \text{ marks})$

MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION - APRIL 2014

SUBJECT: PAPER III: PRINCIPLES AND PRACTICE OF SURGERY OF EYE AND RELATED TOPICS

Thursday, April 03, 2014

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- □ Draw neat and labeled diagram wherever necessary. Health Sciences Library
- Long Essays.
- 1. Discuss the stages and management of proliferative vitreoretinopathy. Write a note on complications of using silicone oil in eye.

(15 marks)

2. Discuss the ocular manifestations of Acquired Immuno Deficiency Syndrome.

(15 marks)

- 3. Write short notes on:
- 3A. Discuss the various types of Intra ocular lenses and their advantages and disadvantages.
- 3B. Discuss briefly the indications and the steps of enucleation.
- 3C. Discuss the clinical features and management of subluxated lens.
- 3D. Discuss the management of hyphaema.
- 3E. Discuss the clinical features and management of pleomorphic adenoma of the lacrimal gland.
- 3F. Discuss the various surgical approaches to the orbit.
- 3G. Describe the various techniques of nucleo- fractis during phacoemulsification.
- 3H. Discuss the inheritance pattern, clinical features and management of retinitis pigmentosa.
- 3I. Discuss the uses of intra-operative Mitomycin-C in ocular surgeries.
- 3J. Discuss the cyclodestructive procedures.

 $(7 \times 10 = 70 \text{ marks})$

MANIPAL UNIVERSITY

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2014 SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY

Friday, April 04, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.

Health Sciences Library

- Long Essays.
- 1. Discuss the recent advances in pars plana vitrectomy. Add a note on various dyes used in retinal surgeries.

(15 marks)

2. Discuss the various imaging modalities used in the management of glaucoma.

(15 marks)

- Write short notes on:
- 3A. Discuss the recent advances in the management of keratoconus.
- 3B. Discuss the recent advances in the management of dry eye.
- 3C. Discuss the principle and advantages of Dynamic contour tonometry.
- 3D. Discuss the various intra ocular lens (IOL) calculation formulae used in patients following refractive corneal surgeries.
- 3E. Discuss the recent advances in fundus angiography. Add a note on reteam.
- 3F. Discuss the role of Anti-Vascular Endothelial Growth Factor (VEGF) in posterior segment diseases.
- 3G. Discuss the use of femto second laser in various ocular surgeries.
- 3H. Discuss the principle and uses of pachymetry.
- 31. Discuss the techniques and uses of intravitreal implants.
- 3J. Discuss the recent advances in the management of retinopathy of prematurity (ROP).

 $(7 \times 10 = 70 \text{ marks})$

