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MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2013 SUBJECT: PAPER I: BASIC SCIENCES RELATED TO OPHTHALMOLOGY

Monday, October 07, 2013

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions. Draw neat, labeled diagrams wherever necessary.
- 1. Mention factors for maintaining corneal transparency.
- 2. Mention layers of retina and its blood supply.
- 3. Discuss aqueous humour outflow.
- 4. Discuss microscopic features of Retinoblastoma.
- 5. Outline blood supply of optic nerve head.
- 6. Classify astigmatism with a labeled diagram of Sturm's conoid.
- 7. Mention types and uses of contact lenses.
- 8. Discuss anti- VEGF drugs.
- 9. Discuss optics of indirect ophthalmoscope.
- 10. Discuss use of Fluorescein in ophthalmology.

 $(10 \times 10 = 100 \text{ marks})$

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MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2013 SUBJECT: PAPER II: CLINICAL OPHTHALMOLOGY

Tuesday, October 08, 2013

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions. Draw neat, labeled diagrams wherever necessary.
- 1. Discuss various techniques for evaluation of optic nerve head.
- 2. Discuss plan for "Vision 2020: The right to sight initiative in India".
- 3. Discuss principle of B-scan. Add a note on its role in diagnosis of retinal detachment in comparison with posterior vitreous detachment.
- 4. Discuss low vision aids.
- 5. Describe the clinical features and management of Herpes Zoster Ophthalmicus.
- 6. Discuss the motor evaluation of a strabismus patient.
- 7. Describe the aetiopathogenesis and management of Inflammatory Optic Neuritis and Neuroretinitis.
- 8. Discuss clinical features and management of Fuchs uveitis syndrome.
- 9. Discuss management of chemical injuries to eye.
- 10. Describe various field defects associated with post chiasmal lesions.

 $(10 \times 10 = 100 \text{ marks})$



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MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2013

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

Wednesday, October 09, 2013

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions. Draw diagrams wherever necessary.
- 1. Discuss the surgical correction of blepharoptosis.
- 2. Enumerate the steps of dacryocystorhinostomy. Add a note on the contraindications of dacryocystorhinostomy.
- 3. Discuss the options for preventing recurrence after ptervgium excision.
- 4. Enumerate the indications of penetrating keratoplasty. Describe the causes for failure of the graft.
- 5. Discuss the surgical management of congenital glaucoma.
- 6. Classify and discuss the various types of iridectomy.
- 7. Describe the principle of Nd YAG laser with its role in ophthalmology. Add a note on the treatment of after cataract.
- 8. What are the principles of primary repair of a corneal tear?
- 9. Discuss exenteration with emphasis on indications, steps of surgery and post operative rehabilitation.
- 10. Explain pneumoretinopexy.

 $(10 \times 10 = 100 \text{ marks})$



Reg. No.

MS (OPHTHALMOLOGY) DEGREE EXAMINATION – OCTOBER 2013

SUBJECT: PAPER IV: RECENT ADVANCES IN OPHTHALMOLOGY

Thursday, October 10, 2013

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions. Draw diagrams wherever necessary.
- 1. Write a note on mechanism of action of anti VEGF (vascular endothelial growth factor) agents and indications for use.
- 2. Discuss briefly INTACS (Intra stromal corneal ring fragments) in management of keratoconus.
- 3. Write short notes on:
- 3A. Travoprost
- 3B. Difluprednate
- 4. How do you calculate IOL power after refractive surgery?
- 5. Indications for use of botulinum toxin in Ophthalmology.
- 6. Discuss briefly Trans conjunctival vitrectomy.
- 7. Write a brief note on stem cells.
- 8. Discuss indications and technique of ICL (implantable collamer lens or implantable contact lens)
- 9. What is aqueous misdirection syndrome?
- 10. Principles of management of a blow out fracture of the orbit.

 $(10 \times 10 = 100 \text{ marks})$