

FINAL EXAM
JUNE 2012

NATIONAL BOARD OF EXAMINATIONS

OPHTHALMOLOGY
PAPER-I

Time : 3 hours
Max. Marks : 100

OPH/J/12/26/I

Attempt all questions in order.
Each question carries 10 marks.

1. Define range and amplitude of accommodation. Define manifest and latent hypermetropia. What are the different ways to uncover the latent hypermetropia? (2+2)+(2+2)+2
2. Describe clinical features, laboratory diagnosis, prevention and management of acanthamoeba keratitis. 3+2+1+4
3. Describe clinical manifestation, pathology, differential diagnosis and management of squamous cell carcinoma of conjunctiva. 2+2+2+4
4. Discuss clinical features, pathogenesis, differential diagnosis and management of primary congenital glaucoma. 2+2+2+4
5. Discuss etiopathogenesis, diagnosis and management of acute angle closure glaucoma. 3+3+4
6. Discuss ophthalmic manifestation of thyrotoxicosis. 10
7. Define scotoma. How do you differentiate between negative and positive scotoma? Discuss approach to diagnosis in a patient presenting with left hemianopia. 1+3+6
8. Give differential diagnosis of painless progressive proptosis in a 35 year old man. Describe clinical features, histopathology and management of orbital cavernous haemangioma. 3+(2+2+3)
9. Describe clinical features, etiology, investigation, various modalities in management of Branch Retinal Vein occlusion. 2+2+2+4
10. Discuss clinical features, investigation, sequelae and management of retained intraocular metallic foreign body. 2+3+2+3

POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL

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OPHTHALMOLOGY
PAPER- II

Time : 3 hours
Max. Marks : 100

OPH/J/12/26/II

Attempt all questions in order.
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1. Discuss the techniques for evaluation of visual acuity from birth to 3 years of age. 10
2. What is suppression in relation to strabismus? Discuss diagnosis and management strategies of suppression. 2+(4+4)
3. Discuss indications, surgical procedure, complications and advances in endothelial keratoplasty. 2+3+3+2
4. Describe relevant nasal anatomy in relation to endonasal DCR. Give advantages and disadvantages of endonasal DCR versus external DCR. 3+7
5. Discuss clinical features, diagnosis, complication and management of uveitis associated with juvenile rheumatoid arthritis. 2+2+2+4
6. Classify scleritis. Discuss clinical manifestations, investigations and management of scleritis and its complications. 2+(2+3+3)
7. Describe etiology, clinical features, investigation and management of 6th Nerve palsy. 2+2+2+4
8. What are Femtosecond Lasers? Discuss the uses of Femtolaser systems in ophthalmic surgery. 4+6
9. Discuss the investigations and management of a 55 year old diabetic patient presenting with neovascular glaucoma and cataract with a visual acuity of 3/60 and IOP of 46mm Hg. 3+7
10. Discuss the workup of a patient planned for refractive surgery. Give relevance of each investigation. What are the absolute contra-indications for Laser refractive surgery? 5+2+3

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OPHTHALMOLOGY
PAPER- III

Time : 3 hours
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OPH/J/12/26/III

Attempt all questions in order.
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1. Discuss the intra-operative and postoperative management of unilateral congenital cataract in a 2 year old child. 10
2. Discuss the differential diagnosis and management of shallow anterior chamber on the first post operative day after trabeculectomy. 5+5
3. Write briefly on ocular involvement in cysticercosis and briefly outline management of ocular cysticercosis. 6+4
4. Discuss clinical features, investigations and management of a case of medial orbital wall fracture. 2+2+6
5. Describe with a diagram the management of a 22 year old patient presenting with a corneo-scleral perforation after road traffic accident 2 hours back. 10
6. Draw a labeled diagram of cut section of lid in relation to involuntional ectropion. Describe etiopathogenesis, clinical features, diagnosis and surgical management of involuntional ectropion. 3+7
7. Draw a labeled diagram of pupillary reflex pathway. Discuss approach to diagnosis of Anisocoria. 5+5
8. Discuss role of silicon oil and expandable gases in management of retinal detachment. 5+5
9. Discuss the immediate management of a 60 year old diabetic patient who has collapsed after injection of dye during fluorescein angiography. 10
10. Discuss etiology, clinical feature, diagnosis and management of optic neuritis in a 40 year old female. 2+2+2+4

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OPHTHALMOLOGY
PAPER- IV

Time : 3 hours
Max. Marks : 100

OPH/J/12/26/IV

Attempt all questions in order.
Each question carries 10 marks.

1. Give labeled diagram of optics of 90D lens for retinal examination. Give the advantage/disadvantage of retinal examination with respect to use of 20D lens. 5+5
2. Discuss the principle of Contrast Sensitivity (CS). Give various methods of CS testing and its role in ocular disorders. 2+(2+6)
3. Discuss the different modalities of measurement of corneal thickness and role of corneal thickness in glaucoma diagnosis. 6+4
4. Discuss principle of Refractive and Diffractive Intraocular Lenses (IOLs). Give advantages and disadvantages of multifocal IOLs. 5+5
5. Enumerate the causes of childhood blindness and measures to prevent childhood blindness. 4+6
6. Enumerate various preservatives used in ophthalmic topical drugs. Discuss their ocular side effects. 4+6
7. Enumerate the principle, advantages and disadvantages of various modalities for anterior segment imaging. 4+3+3
8. Draw cross section, labeled diagram of lacrimal sac showing relation of orbicularis oculi muscle to sac. Discuss lacrimal pump. 4+6
9. Discuss the anatomy of macula. Enumerate relevant points of difference between retinal anatomy at macula and peripheral retina. 5+5
10. Draw labeled diagram of cavernous sinus. Describe clinical features of cavernous sinus thrombosis. 4+6
