

## Question Papers of BHU

M.S. (April) Examination, 2009

### Ophthalmology

Paper – I: Anatomy, Embryology, Physiology of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Describe with diagram the Anatomy of macula. Write in brief about macular function test.
2. Write in brief origin, insertion and actions of different extra ocular muscle. What are different laws that govern ocular movements?
3. Write short notes on :
  - a. Cover Text
  - b. Stile Crawford Phenomenon
  - c. Persistent Pupillary Membrane
  - d. Megalocornea

M.S. (April) Examination, 2009

### Ophthalmology

Paper – II : Pathology of the Eye and Refraction optics

Time: Three hours

Full Marks: 100

1. Describe pathogenesis of glaucomatous damage and role of prostaglandins in glaucoma management. 30
2. Describe briefly :
  - a. Aetiopathogenesis, histopathology & Chemotherapy of retinoblastoma. 15
  - b. Use of Immunosuppressive drugs in ophthalmic disorders . 15
3. Write short notes on : 10 X 4 = 40
  - a. Optics of prims & its clinical use
  - b. Conductive Keratoplasty
  - c. Aspheric IOL's
  - d. Ante – VEGF in Ocular disorders

M.S. (April) Examination, 2009

Ophthalmology

Paper – III: Clinical, Medical and Community Ophthalmology

Time: Three hours

Full Marks: 100

1. Describe 'DIABETIC MACULAR OEDEMA' and its current treatment. 30
2. Describe and discuss 'congenital glaucoma'.
3. Write short notes on : 10 X 4 = 40
  - a. Dissociated vertical deviation
  - b. ARMD
  - c. Siderosis Oculi
  - d. Visual fields in pituitary lesion.

M.S. (April) Examination, 2009

Ophthalmology

Paper – IV: Recent Advances in Ophthalmology, Surgery of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Discuss Briefly :
  - a. CO – MICS 15
  - b. Accomodative IOL 15
2. Discuss briefly :
  - a. Spectral domain optical coherence topography 15
  - b. Anti – Vegf treatment 15
3. Write short notes on :
  - a. Management of dropped nucleus & IOL 10
  - b. DALK & DSAEK 10
  - c. Artificial Cornea 10
  - d. Endoscopic Dacryo – cysto Rhinostomy 10

**M.S. (April) Examination, 2008****Ophthalmology**

Paper – I: Anatomy, Embryology, Physiology of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Discuss in brief with diagram the surgical spaces of the orbit and their importance. 30
2. Describe in brief photochemical and electrical changes when light falls on retina. 30
3. Write in brief : 4 X 10 = 40
  - a. Cover test
  - b. Limbal stem cell
  - c. Reiger's Anomaly
  - d. Lens transparency

**M.S. (April) Examination, 2008****Ophthalmology**

Paper – II: Pathology of the Eye and Refraction optics

Time: Three hours

Full Marks: 100

1. Discuss Aetiopathogenesis of 'ARMD' and its management. 30
2. Describe aetiopathogenesis and management of Endophthalmitis. 30
3. Write short notes on : 10 X 4 = 40
  - a. Multifocal IOL
  - b. Low visual AIDS
  - c. Accommodation and its Anomalies
  - d. Neuroprotection in Glaucoma

**M.S. (April) Examination, 2008****Ophthalmology****Paper – III: Clinical, Medical and Community Ophthalmology**

Time: Three hours

Full Marks: 100

1. Describe the Causes of management of 'Leucocoria'. 30
2. Discuss the differential Diagnosis of Sudden loss of Unilateral vision. 30
3. Write short notes on :
  - a. National Programme of control of Blindness
  - b. Angiogenesis
  - c. Implants in ophthalmology
  - d. Surgical management of Age Related macular degeneration.

**M.S. (April) Examination, 2008****Ophthalmology****Paper – IV: Recent Advances in Ophthalmology, Surgery of Eye and Adnexa**

Time : Three hours

Full Marks : 100

1. Discuss briefly :
  - a. Laser phacolysis 15
  - b. Bimanual phacoemulsification 15
2. Discuss :
  - a. Osteo odonto keratoprosthesis 15
  - b. Optical coherence tomography 15
3. Write short notes on :
  - a. Retinopathy of prematurity. 10
  - b. Management of vitreous haemorrhage. 10
  - c. Kerato – refractive procedures 10
  - d. Modulators in Glaucoma Surgery. 10

M.S. (April) Examination, 2007

Ophthalmology

Paper – II: Pathology of the Eye and Refraction optics

Time: Three hours

Full Marks : 100

1. Discuss aetiopathogenesis of Ischaemic Optic Neuropathy. 30
2. Discuss aetiopathogenesis of Diabetic Retinopathy. 30
3. Write short notes on : 4 X 10 = 40
  - a. Aniseikonia
  - b. Optics of +90 Dioptre lens with diagram
  - c. Pathological Myopia
  - d. Betablockers

M.S. (April) Examination, 2007

Ophthalmology

Paper – III: Clinical, Medical and Community Ophthalmology

Time: Three hours

Full Marks: 100

1. Describe causes and management of Vitreous Haemorrhage. 30
2. Discuss the various surgical treatments for glaucoma with brief reference to newer modalities. 30
3. Write short notes on :
  - a. Vision : 20 20
  - b. Kerato malacia
  - c. V.E.G.f Inhibitors
  - d. Intra Orbital Implants.

**M.S. (April) Examination, 2007****Ophthalmology**

Paper – IV: Recent Advances in Ophthalmology, Surgery of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Discuss new Non-Laser Phacoemulsification technologies. 30
2. Discuss briefly :
  - a. Newer methods of imaging in glaucoma. 15
  - b. Posterior lamellar keratoplasty. 15
3. Write short notes on :
  - a. Anti-VEGF (Vascular Endothelial Growth Factor) treatment.
  - b. Stem Cell grafting
  - c. Evaluation of donor cornea
  - d. Hang back Procedure in squint surgery

**M.S. (June) Examination, 2006****Ophthalmology**

Paper – I: Anatomy, Embryology, Physiology of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Describe the anatomy of Angle of Anterior Chambers. Give a brief account of ultra structure of Trabecular meshwork. 30
2. Describe briefly :
  - a. Retinal Anatomy
  - b. Levator Palpabral superioris
  - c. Nerve fibre arrangement at Beginning of Optic Chiasma
  - d. Physiology of Accommodation
3. Discuss the development of nasolacrimal passages and highlight its applied anatomy in congenital dacryocystitis. 30

**M.S. (June) Examination, 2006****Ophthalmology****Paper – II: Pathology of the Eye and Refraction optics**

Time: Three hours

Full Marks: 100

1. Describe etiopathogenesis of endopahthalmitis. Briefly discuss various drugs used intravitreally. 30
2. Enumerate immunological disorders affecting eye. Describe various immune suppressive drugs used in ocular disorders. 30
3. Write short notes on :
  - a. Multifocal IOL
  - b. Contrast sensitivity
  - c. Low vision Aids
  - d. Decentering of Lenses

**M.S. (June) Examination, 2006****Ophthalmology****Paper – III: Clinical, Medical and Community Ophthalmology**

Time: Three hours

Full Marks: 100

1. Discuss the various laser treatments for glaucoma. 30
2. Describe clinical features, investigations and management of axial proptosis. 30
3. Write notes on :
  - a. Amsler grid
  - b. Verteporfin
  - c. Limbal stem cells
  - d. Prosthetic contact lenses

**M.S. (June) Examination, 2006****Ophthalmology**

Paper – IV: Recent Advances in Ophthalmology, Surgery of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Discuss corneal graft rejection, its management and prevention. 30
2. Discuss briefly :
  - a. Management of Duane's retraction syndrome. 15
  - b. Retinopathy of Prematurity 15
3. Write short notes on :
  - a. Trabeculotomy
  - b. Specular microscopy
  - c. Various development in IOL design
  - d. Surgical management for Canalicular obstruction

**M.S. (Nov. / Dec.) Examination, 2005****Ophthalmology**

Paper – I: Anatomy, Embryology, Physiology of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Describe the development of Nasolacrimal passage. How you would manage a case of discharge in a newborn. 20 + 5
2. Describe formation and drainage of aqueous humour. Name the Congenital anomalies of the angle of Anterior Chamber. 20 + 5
3. Write briefly on :
  - a. Dark adaptation
  - b. Psuedopterygium
  - c. Contrast sensitivity
  - d. Congenital toxoplasmosis



**M.S. (June) Examination, 2005****Ophthalmology****Paper – I: Anatomy, Embryology, Physiology of Eye and Adnexa**

Time: Three hours

Full Marks : 100

1. Describe the anatomy and congenital anomalies of eye lid.
2. Discuss the causes and management of corneal decompensation.
3. Write notes on :
  - a. Conjunctival Impression Cytology
  - b. Anatomy of Foveal region
  - c. Medial wall of orbit

**M.S. (Nov. / Dec.) Examination, 2005****Ophthalmology****Paper – III: Clinical, Medical and Community Ophthalmology**

Time : Three hours

Full Marks : 100

1. Discuss clinical, genetical and managemental aspects of Retinitis Pigmentosa. 30
2. Discuss the causes and management of contact lense complications. 30
3. Write notes on :
  - a. Flap related LASIK complications
  - b. Acetylcysteine eye drops
  - c. Risk factors for ARMD
  - d. In Orbital lesions : MRI Vs. CT

**M.S. (June) Examination, 2005****Ophthalmology****Paper – III: Clinical, Medical and Community Ophthalmology**

Time: Three hours

Full Marks: 100

1. Classify diabetic retinopathy. Discuss treatment and complications of PDR. 30
2. What is TARGET PRESSURE? Describe newer drugs used in Glaucoma. 30
3. Write short notes on :
  - a. Management option in exudative ARMD. 14
  - b. Causes and prevalence of Preventable blindness in our Country. 13
  - c. SICS – Technique and ADVANTAGES. 13

**M.S. (June) Examination, 2004****Ophthalmology****Paper – I : Anatomy, Embryology, Physiology of Eye and Adnexa**

Time: Three hours

Full Marks: 100

1. Describe the anatomy of lens. How does lens maintain its transparency? 15 + 15 = 30
2. Describe in brief the anatomy of Foveal Avascular Zone. 15 + 15 = 30
3. Write short notes on :
  - a. Reiger's Anomaly
  - b. Ciliary Ganglion
  - c. Levator Palpaebrae Superioris.
  - d. Prostaglandin

## M.S. (June) Examination, 2004

## Ophthalmology

## Paper – II: Pathology of the Eye and Refraction optics

Time: Three hours

Full Marks: 100

1. Discuss the pathology of choroidal melanoma of the Eye. 30
2. Describe briefly :
  - a. Ocular Hyposecretion 15
  - b. Colour Vision 15
3. Write short notes on :
  - a. Donders Reduced Eye 10
  - b. Corneal blood Staining 10
  - c. Anisokoenia 10
  - d. Toxoplastic Retinochoroiditis 10

## M.S. (June) Examination, 2004

## Ophthalmology

## Paper – III: Clinical, Medical and Community Ophthalmology

Time: Three hours

Full Marks: 100

1. Describe the etiology, clinical features and management of Ectopia Lentis. 30
2. Discuss briefly :
  - a. Diabetic Macular oedema 15
  - b. Clinical application of the concept of Limbal stem cell 15
3. Write short notes on :
  - a. Acanthamoebic Keratitis 10
  - b. Traumatic Hyphaema 10
  - c. Anterior Ischaemic Optic Neuropathy 10
  - d. Pseudophakic Glaucoma 10

**M.S. (June) Examination, 2004****Ophthalmology**

Paper – IV: Recent Advances in Ophthalmology, Surgery of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Discuss enhancement Technology in Laser Refractive Surgery. 30
2. Discuss newer strategy in 'Dry Eye' Management. 30
3. Write short notes on : 10 X 4 = 40
  - a. Botulinum toxin in ophthalmology
  - b. Limbal Stem cell transplantation
  - c. Hang back muscle procedures in squint surgery
  - d. Conductive Keratoplasty

**M.S. (December) Examination, 2003****Ophthalmology**

Paper – I: Anatomy, Embryology, Physiology of Eye and Adnexa

Time: Three hours

Full Marks: 100

1. Describe the anatomy of ciliary body with diagram. Write in brief the formation of aqueous humor. 15 + 5 + 10 = 30
2. What is Blood-Ocular Barrier? Describe in brief the anatomy of its component. Discuss its physiological and clinic significance.
3. Write short notes on (any Four) :
  - a. Optics of 90D lens (with diagram)
  - b. Cover Tests
  - c. Electroretinogram
  - d. Pannum Area
  - e. Hyaloid system of vessels

## M.S. (December) Examination, 2003

## Ophthalmology

## Paper – II: Pathology of the Eye and Refraction optics

Time: Three hours

Full Marks: 100

1. Describe the Immuno-pathological factors for a successful corneal graft.
2. Describe briefly :
  - a. Prostaglandins in the eye. 15
  - b. Soft Contact Lens. 15
3. Write short notes on :
  - a. Convergence Excess 10
  - b. Low visual Aids 10
  - c. Higher order aberrations 10
  - d. Basal Cell Carcinoma 10

## M.S. (December) Examination, 2003

## Ophthalmology

## Paper – III : Clinical, Medical and Community Ophthalmology

Time: Three hours

Full Marks: 100

1. Discuss Ocular surface failure and its management. 30
2. Discuss briefly :
  - a. Diabetic Maculopathy. 15
  - b. Photodynamic Therapy. 15
3. Write short notes on :
  - a. Normal Tension glaucoma. 10
  - b. Vision 2020. 10
  - c. Anomalous retinal correspondence. 10
  - d. FUCHS Dystrophy. 10