

Roll no.

P-2720

M.S. EXAMINATION, APRIL, 2008

M.S. – OPHTHALMOLOGY

(Paper - I)

(Anatomy, Physiology & Refraction of Eye)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Describe the vertical cut section of upper eye lid. 10 marks
 2. Draw a diagram of tear drainage passages. Briefly mention their importance vis-à-vis anatomical relations. 10 marks
 3. Write in detail about choroidal and retinal arterial circulation. 10 marks
 4. Which are the various peribulbar spaces ? While describing mention also the significance in ophthalmology practice. 10 marks
 5. Please write short notes on : 5 marks each
 - (a) Axoplasmic flow
 - (b) Panum's area
 - (c) Corneal sensations
 - (d) Tear film
 - (e) Uveoscleral outflow
 - (f) AC/A ratio
 - (g) Rhodopsin
 - (h) Auto regulation of ocular blood flow
 6. Discuss the principles of autorefractometers. 10 marks
 7. Diagrammatically explain the optics of indirect ophthalmoscope. 10 marks
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Roll no.

P-2721

M.S. EXAMINATION, APRIL, 2008

M.S. – OPHTHALMOLOGY

(Paper – II)

(General Ophthalmology including Surgery)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

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|-----|---|----------|
| 1. | Peripheral corneal ulcer : Differential diagnosis | 10 marks |
| 2. | Differential diagnosis and management of Intermediate uveitis | 10 marks |
| 3. | Micro-incision cataract surgery (MICS) | 10 marks |
| 4. | Recent advances in diagnosis of POAG | 10 marks |
| 5. | Dissociated vertical deviations (DVD) | 10 marks |
| 6. | Recent trends in management of choroidal melanoma | 10 marks |
| 7. | Medical and surgical management of CRVO | 10 marks |
| 8. | Differential diagnosis of anisocoria | 10 marks |
| 9. | Guidelines for management of proliferative diabetic retinopathy (PDR) | 10 marks |
| 10. | Management of blepharophimosis syndrome | 10 marks |

Roll no.

P-2722

M.S. EXAMINATION, APRIL, 2008

M.S. – OPHTHALMOLOGY

(Paper – III)

(Recent Advances)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Describe the role of confocal scanning laser ophthalmoscopy in ophthalmology. 20 marks
2. Describe the indications of O.C.T. and its interpretations by diagrams. 20 marks
3. Draw and label various lesions of the optic radiations and visual cortex along with their fields defect. 20 marks
4. Write short notes on : 5 marks each
 - (a) Posner schlossman syndrome
 - (b) Types of retinal breaks in relation to R.D.
 - (c) Complications of pars plana vitrectomy
 - (d) Endo-laser – D.C.R.
5. Write briefly on the following : 5 marks each
 - (a) Medial orbital wall fracture
 - (b) Elevated episcleral pressure
 - (c) Orbital pseudo-tumours
 - (d) Complications of filtering surgery

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P-49

M. S. EXAMINATION, April/May, 2009

OPHTHALMOLOGY

Paper First

(Embryology, Anatomy, Physiology and Optics)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss the anatomy of angle of Anterior Chamber. Discuss in detail the mechanism of aqueous formation. 25
2. Discuss the clinical anatomy of the orbit in relation to its floor, medial wall, superior orbital fissure and surgical spaces. 25
3. Describe briefly the following :
 - (i) Mechanism of accommodation 13
 - (ii) Blood supply of optic nerve 12
4. Describe briefly the following :
 - (i) Optics of Indirect Ophthalmoscopy 13
 - (ii) Subjective verification of refraction 12

Roll No.

P-50

M. S. EXAMINATION, April/May, 2009

OPHTHALMOLOGY

Paper Second

**(Basic Ophthalmology Including Neurophthalmology
and Ocular Pathology)**

Time : Three Hours]

[Maximum Marks : 100

Note : All questions are to be answered.

1. Explain role of Lasers in glaucoma. 25
2. Explain the following :
 - (a) Stem cell transplantation in ophthalmology. 15
 - (b) Electrical phenomena in Retina. 10
3. Write short notes on the following : 10 each
 - (i) Pathology of Coats' disease
 - (ii) Thyroid ophthalmopathy
 - (iii) Pathology of Graft Rejection
4. Write short notes on the following : 10 each
 - (i) Congenital 3rd Nerve Palsy
 - (ii) Orbital apex syndrome

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M. S. EXAMINATION, April/May, 2009

OPHTHALMOLOGY

Paper Third

(Clinical Anterior and Posterior Segment)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

Write short notes on the following :

10 each

1. Auto-immune conjunctivitis.
2. Intermittant Exotropia.
3. Clinical signs and management of posterior capsular rupture in cataract surgery.
4. Behcet's syndrome.
5. CMV retinitis.
6. Iridocorneal endothelial syndromes.
7. ROP and its management.
8. Macular hole.
9. Posterior Uveal melanoma.
10. Endophthalmitis following cataract surgery.

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M. S. EXAMINATION, April/May, 2009

OPHTHALMOLOGY

Paper Fourth

(Recent Advances)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Explain role of Corneal Topography in Ophthalmology and its limitations. 25
2. Describe in brief the Phakic I. O. L. implants, indications, contraindications, advantages and disadvantages. 25
3. What are the Glaucoma Drainage devices ? Give their indications and complications of the procedure. 25
4. Write short notes on the following : 5 each
 - (i) Management of Intermediates uveitis
 - (ii) Immune responses to various ocular diseases
 - (iii) Systemic diseases with pigmentary retinopathies
 - (iv) Transient Binocular visual loss
 - (v) Paediatric low vision issues

Lib.

PG- O-1

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS OPHTHALMOLOGY
(PAPER ONE)**

OCULAR ANATOMY, PHYSIOLOGY, OPTICS, REFRACTION & OCULAR THERAPEUTICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Discuss the clinical anatomy of orbit in relation to its floor, medical wall, superior orbital fissure and surgical spaces. (20)
- Q. 2. Discuss in detail the aqueous humour dynamics. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Phabio intraocular lenses (3 x 10 = 30)
 - b. Factors responsible for transparency of cornea
 - c. Mechanism of accommodation
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Anti fungal drugs (5 x 6 = 30)
 - b. Septum Orbitale
 - c. Development of crystalline lens
 - d. Optics of indirect ophthalmoscopy
 - e. Pre corneal tear film

X

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS OPHTHALMOLOGY
(PAPER TWO)**

CLINICAL OPHTHALMOLOGY INCLUDING SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Define glaucoma. Describe the clinical manifestations, visual field changes, investigations and treatment of primary open angle glaucoma. (20)
- Q. 2. Write in detail the clinical features, investigations and treatment options including surgical management of age related macular degeneration. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Ptosis surgeries
 - b. Pterygium including pterygium surgeries
 - c. Toxic anterior segment syndrome
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Ocular manifestations of AIDS
 - b. Behcet's Disease
 - c. Implantable contact lenses
 - d. Recurrent corneal erosion syndrome
 - e. Blow-out fracture of the orbital floor

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS OPHTHALMOLOGY
(PAPER THREE)**

OCULAR PATHOLOGY & OPHTHALMOLOGY IN RELATION TO MEDICINE & SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Describe in detail the clinical features, investigations, D/D & management of choroidal melanoma. (20)
- Q. 2. Describe the surgical management of subfoveal choroidal neovascularization. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Aqueous misdirection glaucoma.
 - b. Diabetic maculopathy
 - c. Keratoprosthesis
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Parks-Bielschowsky 3-steps test.
 - b. Categories of intracranial haemorrhage and its causes.
 - c. Rhino-orbital mucormycosis
 - d. Purtscher Retinopathies
 - e. Peters Anomaly

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011**MS OPHTHALMOLOGY****(PAPER FOUR)****RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, ADVANCES & COMMUNITY
OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Discuss recent classification and management of Retinoblastoma. (20)
- Q. 2. Describe in detail about latest photo-refractive procedures. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Merits and demerits of multifocal IOL
 - b. Role of OCT in glaucoma
 - c. Endothelial Keratoplasty
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Multifocal ERG
 - b. Anti-VEGF
 - c. End-ophthalmitis vitrectomy study
 - d. Vertical Vs Horizontal phaco-chop technique.
 - e. Currant concept of amblyopia management.

POST GRADUATE EXAMINATION, APRIL- 2012

MS OPHTHALMOLOGY (PAPER ONE)

OCULAR ANATOMY, PHYSIOLOGY, OPTICS, REFRACTION & OCULAR THERAPEUTICS

{Time allotted: Three hours}

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1. Describe with a diagram blood supply of optic nerve. (20)
- Q. 2. Describe physiology of colour vision. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
 - a. Accomodative esotropia
 - b. Anti-VEGF drugs in ophthalmology
 - c. Retinoscopy
- Q. 4. Write short notes on: (5 x 6 = 30)
 - a. Optics of direct ophthalmoscopy
 - b. Optic nerve pathway
 - c. Binocular vision
 - d. Optical biometry
 - e. Botulinum

X

X

POST GRADUATE EXAMINATION, APRIL- 2012**MS OPHTHALMOLOGY
(PAPER TWO)****CLINICAL OPHTHALMOLOGY INCLUDING SURGERY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** A 60 year old man presents with unilateral painful, sudden loss of vision. He is a known diabetic and hypertensive and had glaucoma surgery in that eye two years ago. What is your differential diagnosis? How will you investigate and manage the case? (20)
- Q. 2.** A 5 year old child presents with unilateral red eye. He complains of mild diminution of vision, watering and photophobia. The cornea is clear and there are axillary lymphnodes. What is the differential diagnosis? What investigations will you order and what treatment will you advise? (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Management of eyelid lacerations
 - b. Screening protocol for Retinopathy of prematurity
 - c. Etiopathogenesis and clinical features of ectopia lentis
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Sequelae and complications of iritis
 - b. Management of retained lens material
 - c. Surgical spaces of orbit
 - d. Management of caustic burn of eye
 - e. Prevention of surgery-induced corneal edema in phacoemulsification surgery

POST GRADUATE EXAMINATION, APRIL- 2012

MS OPHTHALMOLOGY

(PAPER THREE)

OCULAR PATHOLOGY & OPHTHALMOLOGY IN RELATION TO MEDICINE & SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Describe in detail the clinical features, investigations, differential diagnosis and management of Retinoblastoma. (20)
- Q. 2.** Describe the surgical management of various tumours of lids and its adenexa. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Serpiginous choroiditis
 - b. Scleromalacia perforans
 - c. Cyclodestructive procedures
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Peters Anomaly
 - b. Cilioretinal artery occlusion
 - c. Morning glory anomaly
 - d. Physiological Nystagmus
 - e. Reiter Syndrome

POST GRADUATE EXAMINATION, APRIL- 2012

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, ADVANCES & COMMUNITY
OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1. Discuss merits and demerits of ophthalmic visco-surgical devices (OVD). (20)
- Q. 2. Describe recent surgical management of ocular surface disorders. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Role of releasable sutures in ophthalmology
 - b. Amblyopia treatment study
 - c. Glaucoma implants
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Floppy iris syndrome
 - b. Femtosecond laser
 - c. AZOOR
 - d. Artificial cornea
 - e. Chemo-denervation by Botulinum toxin

POST GRADUATE EXAMINATION, MAY- 2013

MS OPHTHALMOLOGY

(PAPER ONE)

OCULAR ANATOMY, PHYSIOLOGY, OPTICS, REFRACTION & OCULAR THERAPEUTICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagrams.

- Q. 1.** Describe in detail ciliary body. (20)
- Q. 2.** Theories of Aqueous formation. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Management of Myopia.
 - b. Topical antiviral drugs.
 - c. Horopter.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Methods of I.O.L. power calculation.
 - b. Mast cell stabilizers.
 - c. Ciliary ganglion
 - d. Carbonic anhydrase inhibitors
 - e. Prostaglandin analogues.

X

POST GRADUATE EXAMINATION, MAY- 2013

**MS OPHTHALMOLOGY
(PAPER TWO)**

CLINICAL OPHTHALMOLOGY INCLUDING SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Critically evaluate the differential diagnosis and management of failing vision in an elderly patient. (20)
- Q. 2.** Outline your approach for the evaluation and management of a case of : (20)
- a. Congenital ptosis
 - b. Failed ptosis surgery
 - c. Ptosis in special situations
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Contrast sensitivity and its role in eye diseases.
 - b. Aetiopathogenesis of NVG, its clinical features and management options.
 - c. DCT classification of macular hole, factors prognosticating the treatment outcome.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Retained intraocular foreign body and its management.
 - b. Blow out fracture of the orbit.
 - c. Multifocal intraocular lens.
 - d. Peripheral ulcerative keratitis.
 - e. Metastatic endophthalmitis.

POST GRADUATE EXAMINATION, MAY- 2013

**MS OPHTHALMOLOGY
(PAPER THREE)**

OCULAR PATHOLOGY & OPHTHALMOLOGY IN RELATION TO MEDICINE & SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe in detail the causes, clinical features, investigations and management of Subluxated lens. (20)
- Q. 2.** Describe in detail the etiopathogenesis, clinical features, investigations and management of sympathetic ophthalmitis. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- Fuch's heterochromic uveitis.
 - Malignant melanoma
 - Management of pediatric aphakia
- Q. 4.** Write short notes on: (5 x 6 = 30)
- Vernal conjunctivitis
 - Mooren's corneal ulcer
 - 100 days glaucoma
 - Spasmus nutans
 - CMV retinitis

POST GRADUATE EXAMINATION, MAY- 2013

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, ADVANCES & COMMUNITY
OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss in detail about ocular surface reconstruction procedure. (20)
- Q. 2.** Describe various methods and their complications of nucleus management in phaco-emulsification. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Role of OCT in ARMD
 - b. Keratoprosthesis
 - c. Flap related complication of LASIK
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. SUN classification in uveitis
 - b. Vision 2020
 - c. Time release drug implants
 - d. Current concept in management of diabetic macular edema.
 - e. Latanoprost

POST GRADUATE EXAMINATION, SEPTEMBER- 2013

MS OPHTHALMOLOGY
(PAPER ONE)

OCULAR ANATOMY, PHYSIOLOGY, OPTICS, REFRACTION & OCULAR THERAPEUTICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagrams if required.

Q. 1. Describe the angles of anterior chamber. (20)

Q. 2. Describe the theories of colour vision. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Astigmatism
- b. Development of lens
- c. Cycloplegics in refraction

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Optics of indirect ophthalmoscopy
- b. Papillary reaction pathways
- c. Binocular vision
- d. Contrast sensitivity
- e. Topical antifungal drugs

POST GRADUATE EXAMINATION, SEPTEMBER- 2013

MS OPHTHALMOLOGY

(PAPER TWO)

CLINICAL OPHTHALMOLOGY INCLUDING SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagrams if required.

- Q. 1.** Outline the differential diagnosis of proptosis in a child less than 10 years of age. (20)
- Q. 2.** What is the current status of refractive procedures? Write a critical note on selection of patient and lasers for these. Discuss complications of LASIK surgery. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Recent advances in the treatment of Presbyopia.
 - b. Retinal vein occlusion and role of anti VEGF in its management.
 - c. Management of non healing keratitis.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Management of patient with failed DCR
 - b. Mechanism and management of traumatic glaucoma
 - c. Approach to a case of diplopia
 - d. Management and differential diagnosis of disc edema
 - e. Behcet's disease

POST GRADUATE EXAMINATION, SEPTEMBER- 2013

MS OPHTHALMOLOGY
(PAPER THREE)

OCULAR PATHOLOGY & OPHTHALMOLOGY IN RELATION TO MEDICINE & SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams if required.

- Q. 1.** Describe the ocular manifestations of HIV infection, their clinical features and management. (20)
- Q. 2.** Describe in detail the etiopathogenesis, clinical features, investigations and management of congenital glaucoma. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Vitreous substitutes
 - b. Recent advances in intraocular lens
 - c. Peripheral corneal ulcers
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Adenocystic carcinoma of lacrimal gland
 - b. Acute multifocal posterior placoid pigment epitheliopathy
 - c. Brown syndrome
 - d. Microtropia
 - e. Involutional entropion

POST GRADUATE EXAMINATION, SEPTEMBER- 2013

**MS OPHTHALMOLOGY
(PAPER FOUR)**

RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams if required.

- Q. 1.** Describe the pathogenesis, clinical characteristics, ocular findings and management of Intermediate uveitis. (20)
- Q. 2.** Enumerate the various orbital growths and give their salient differentiating features. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Phacogenic glaucoma
 - b. Nystagmus surgery
 - c. Ocular features of Sarcoidosis
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Blindness and LVA
 - b. Organ transplantation Act.
 - c. Dacryoadenitis
 - d. Chiasmal lesions & fields
 - e. Laser sclerostomy

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

**MS OPHTHALMOLOGY
(PAPER ONE)**

OCULAR ANATOMY, PHYSIOLOGY, OPTICS, REFRACTION & OCULAR THERAPEUTICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1 Describe anatomy and physiology of aqueous humour drainage. (20)

Q. 2. Describe anatomical and physiological aspects of pupillary reflexes. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Principles of corneal tomography.
- b. Management of astigmatism in cataract surgery.
- c. Testing of stereopsis.

Q. 4 Write short notes on: (5 x 6 = 30)

- a. Anti - VEGFs
- b. Fluorescein dye
- c. Ocular antifungal drug.
- d. BSS plus
- e. Preparation of common intravitreal antibiotics.

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

MS OPHTHALMOLOGY

(PAPER TWO)

CLINICAL OPHTHALMOLOGY INCLUDING SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss the Herpetic simplex eye disease, pathogenesis, clinical presentation and management. (20)

Q. 2. Management of posterior dislocation of lens fragment during phaco-emulsification. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Traumatic visual loss with clear media.
- b. Toxoplasmosis.
- c. Pre-operative evaluation of a patient for refractive surgery.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Lesions of visual pathways.
- b. Contracted socket.
- c. Vogt Koyanagi Harada Disease (VKH).
- d. Recurrent corneal erosion syndrome.
- e. Current treatment of exudative ARMD.

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

MS OPHTHALMOLOGY
(PAPER THREE)

OCULAR PATHOLOGY & OPHTHALMOLOGY IN RELATION TO MEDICINE & SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe in detail the causes, clinical features, investigations and management of Developmental cataract. (20)
- Q. 2.** Describe in detail the etiopathogenesis, clinical features, investigations and management of Marginal Keratitis. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- Pseudoexfoliation Syndrome
 - Orbital cysticercosis
 - Duane's Retraction Syndrome.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- Histopathology of Retinoblastoma.
 - Anterior ischaemic optic neuropathy.
 - Fuch's heterochromic uveitis.
 - Diabetic papillopathy.
 - Histopathology of rodent ulcer of lids.

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, ADVANCES & COMMUNITY
OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** How do you work up a case of PTOSIS? Give the management of unilateral Marcus Gunn Jaw Winking- Ptosis. (20)
- Q. 2.** Describe various surgical procedures for open-angle glaucoma. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Role of OCT in Macular Hole.
 - b. Management of Fuch's Dystrophies.
 - c. Phakic IOLs.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Viscoelastics in ophthalmology.
 - b. Adjustable sutures in squint surgery.
 - c. Parinaud's syndrome.
 - d. Morning glossy syndrome.
 - e. Lasers in blephoroplasty.

POST GRADUATE EXAMINATION, APRIL - 2015

**MS OPHTHALMOLOGY
(PAPER ONE)**

BASIC SCIENCES (OCULAR ANATOMY, PHYSIOLOGY AND PHARMACOLOGY)

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe in detail OCT of Macula. (20)
- Q. 2.** Discuss Gonioscopy and its role in glaucoma treatment. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Surgical options of high myopia.
 - b. Anisometropic amblyopia.
 - c. Bandage contact lens.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Lattice degeneration
 - b. Target pressure
 - c. + 90 D Lens
 - d. Blood aqueous barrier
 - e. IRIS Atrophy

POST GRADUATE EXAMINATION, APRIL - 2015

**MS OPHTHALMOLOGY
(PAPER TWO)**

OPTICS, REFRACTION & CLINICAL OPHTHALMOLOGY- I

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss differential diagnosis of acute proptosis in a child. Describe the management of orbital lymphangioma. (20)
- Q. 2.** Discuss management of unilateral paediatric cataract. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Astigmatism.
 - b. Anti Glaucoma drugs.
 - c. Bacterial conjunctivitis.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Low vision aids.
 - b. Eye donation counseling.
 - c. Scleritis
 - d. Herpes simplex keratitis.
 - e. Glaucoma valves.

POST GRADUATE EXAMINATION, APRIL - 2015

MS OPHTHALMOLOGY
(PAPER THREE)

CLINICAL OPHTHALMOLOGY - II & INVESTIGATIVE OPHTHALMOLOGY

[Max Marks: 100]

[Time allotted: Three hours]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe SUN classification of uveitis and its management.

(20)

Q. 2. Discuss classification, genetics and management of retinoblastoma.

(20)

Q. 3. Describe briefly:

(3 x 10 = 30)

- Management of esodeviation in children.
- Recent modalities in treatment of diabetic macular oedema.
- Modern treatment of amblyopia.

Q. 4. Write short notes on:

(5 x 6 = 30)

- Vitreous substitutes.
- RAPD testing & charting.
- Pentacam.
- Rodent ulcer.
- Behcet's disease.

POST GRADUATE EXAMINATION, APRIL - 2015

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, COMMUNITY OPHTHALMOLOGY &
MEDICOLEGAL ASPECTS IN OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. How will you manage a case of A.I.O.N.? (20)

Q. 2. Discuss diagnosis and treatment of Keratoconus. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Treatment of C.M.E.
- b. Ideal I.O.L.
- c. Punctal plugs.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Preservation of donor cornea.
- b. Newer trends in perimetry.
- c. Bionic eye.
- d. Fugo blade
- e. Definition and grades of blindness.

X

POST GRADUATE EXAMINATION, MAY - 2016

**MS OPHTHALMOLOGY
(PAPER ONE)**

BASIC SCIENCES (OCULAR ANATOMY, PHYSIOLOGY AND PHARMACOLOGY)

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe in detail anatomy of angle of anterior chamber and describe grading of its gonioscopic view. (20)

Q. 2. Discuss in detail biochemistry of adult human crystalline lens. (20)

Q. 3. Describe briefly: (3 x 10 = 30)
a. Multifocal ERG
b. Surgical options for Presbyopia
c. Theories of colour vision

Q. 4. Write short notes on: (5 x 6 = 30)
a. Laser refractive procedures for cornea
b. Vascular malformations of the orbit
c. Immunomodulators and antimetabolites in uveitis
d. Amblyopia of extinction
e. Field of fixation

X

POST GRADUATE EXAMINATION, MAY - 2016

MS OPHTHALMOLOGY
(PAPER TWO)

OPTICS, REFRACTION & CLINICAL OPHTHALMOLOGY- I

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. Discuss etiopathogenesis and management of post operative endophthalmitis. (20)
- Q. 2. Classify uveal melanoma. Discuss in detail about recent trends in management of choroidal melanoma. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Small pupil management during cataract surgery
 - b. Ocular manifestation of AIDS
 - c. Park's three step test
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Syndromes associated with IIIrd cranial nerve palsy
 - b. Pathology of corneal graft rejection
 - c. Investigation for dry eye
 - d. Posterior scleritis
 - e. Surgery for ectropion of lid

X

POST GRADUATE EXAMINATION, MAY - 2016

**MS OPHTHALMOLOGY
(PAPER THREE)**

CLINICAL OPHTHALMOLOGY – II & INVESTIGATIVE OPHTHALMOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss the clinical features, genetics and management of Retinoblastoma. (20)
- Q. 2.** Discuss Retinal nerve fiber analysis in ophthalmology. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Sympathetic Ophthalmitis
 - b. Masquerade syndrome
 - c. Retinopathy of prematurity
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. AZOOR
 - b. Hypertensive Uveitis
 - c. Macular hole
 - d. Idiopathic intracranial hypertension
 - e. Uveal effusion syndrome

X

POST GRADUATE EXAMINATION, MAY - 2016

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, COMMUNITY OPHTHALMOLOGY &
MEDICOLEGAL ASPECTS IN OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe the classification of visual impairment as per WHO criteria. How does it differ from the one proposed by NPCB? List the causes of visual impairment in India. **(20)**

Q. 2. Role of anti VEGFs in ophthalmology. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Ocular manifestations in diabetic mellitus
- b. Low vision aids
- c. Eye banking

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Phakomatosis
- b. Vision centre
- c. Implications of organ transplant act in context with corneal transplantation establishment in a Hospital.
- d. School eye health screening program
- e. Vitamin A prophylaxis

X

POST GRADUATE EXAMINATION, SEPT./ OCT. - 2016

**MS OPHTHALMOLOGY
(PAPER ONE)**

BASIC SCIENCES (OCULAR ANATOMY, PHYSIOLOGY AND PHARMACOLOGY)

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe in a tabular form the differences between infant eye and adult eye. (20)
- Q. 2.** Describe blood supply of the orbit. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. VEP
 - b. Labelled and detailed diagram of retina.
 - c. Labelled and detailed diagram of angle of anterior chamber.
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Tear film
 - b. Quadrantanopia
 - c. Light minimum
 - d. Cataractogenesis
 - e. Colour vision

X

POST GRADUATE EXAMINATION, SEPT./ OCT. - 2016

MS OPHTHALMOLOGY

(PAPER TWO)

OPTICS, REFRACTION & CLINICAL OPHTHALMOLOGY- I

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss approach to a case of proptosis. (20)

Q. 2. Discuss pediatric glaucoma and its management. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Malignant tumours of lid and their management.
- b. Use of Amniotic membrane in Ophthalmology
- c. Amblyopia

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Metabolic cataract
- b. Valved glaucoma implants
- c. Corneal chrysiasis
- d. Carotid cavernous Fistula
- e. Moorens Ulcer

X

POST GRADUATE EXAMINATION, SEPT./ OCT. - 2016

**MS OPHTHALMOLOGY
(PAPER THREE)**

CLINICAL OPHTHALMOLOGY – II & INVESTIGATIVE OPHTHALMOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe transient visual loss, its aetiopathogenesis, differential diagnosis and management. **(20)**

Q. 2. Describe prevalence, classification, diagnosis and management of diabetic retinopathy. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Optic atrophy
- b. 'A' & 'V' pattern in strabismus
- c. Blunt injury of eye

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. OCT
- b. Tonometry
- c. Cystoid macular edema
- d. Fuch's Heterochromic iridocyclitis
- e. Basal cell carcinoma of lid.

X

POST GRADUATE EXAMINATION, SEPT./ OCT. - 2016

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, COMMUNITY OPHTHALMOLOGY &
MEDICOLEGAL ASPECTS IN OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss use of lasers in glaucoma management. (20)

Q. 2. Discuss Thyroid Eye Disease. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. 'SMILE' technique in refractive surgery.
- b. Recent advances in cataract surgery.
- c. Reiter's Syndrome

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Corneal preservation
- b. Vision 2020
- c. Amsler grid
- d. DMEK
- e. Ocular cysticercosis

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS OPHTHALMOLOGY
(PAPER ONE)**

BASIC SCIENCES (OCULAR ANATOMY, PHYSIOLOGY AND PHARMACOLOGY)

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Discuss in detail about anatomy of visual pathways. (20)
- Q. 2.** Discuss embryogenesis of lens. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Near reflex
 - b. Color vision
 - c. Accommodation and its anomalies
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Stereopsis
 - b. Viscoelastics
 - c. Transparency of cornea
 - d. Fluconazole
 - e. Mitomycin-C

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS OPHTHALMOLOGY
(PAPER TWO)**

OPTICS, REFRACTION & CLINICAL OPHTHALMOLOGY- I

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Classify uveal melanoma. Discuss in detail about recent trends in management of choroidal melanoma. (20)
- Q. 2.** Describe provocative tests for diagnosing glaucoma indicating their implications with the treatment. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Paediatric cataract
 - b. Corneal ectatic disorders
 - c. Unilateral proptosis
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Amniotic membrane in ophthalmic disorders
 - b. Ectopia lentis
 - c. Cutaneous horn
 - d. Herpes Zoster ophthalmicus
 - e. Staphyloma

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS OPHTHALMOLOGY
(PAPER THREE)**

CLINICAL OPHTHALMOLOGY – II & INVESTIGATIVE OPHTHALMOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss in detail diabetic macular oedema and its management. (20)

Q. 2. Describe visual pathway along with different site of lesion with corresponding field defect. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Retinoschiasis
- b. Congenital optic disc anomalies
- c. Malignant melanoma of choroid

Q. 4. Write short notes on: (5 x 6 = 30)

- a. One and a half syndrome
- b. Anti VEGF agents
- c. Choroidal neovascularization
- d. Keratic precipitates
- e. Branch retinal vein occlusion

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, COMMUNITY OPHTHALMOLOGY &
MEDICOLEGAL ASPECTS IN OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss recent classification & management of retinoblastoma. (20)

Q. 2. Discuss the ocular manifestations of HIV. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. International classification of ocular trauma
- b. Macular hole surgery
- c. Human organ transplantation act 1994

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Femto-second laser assisted cataract surgery
- b. Adjustable sutures in squint surgery
- c. Visually handicapped certification
- d. Types of lamellar keratoplasty
- e. 'SUN' classification in uveitis

X

POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/OCTOBER - 2017

**MS OPHTHALMOLOGY
(PAPER ONE)**

BASIC SCIENCES (OCULAR ANATOMY, PHYSIOLOGY AND PHARMACOLOGY)

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss anatomy of lens and its congenital anomalies. (20)
- Q. 2.** Describe in detail about physiology and factors affecting tear production. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Optics of operative microscope
 - b. Development of cornea
 - c. Electrophysiological tests of retina
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Specular microscopy
 - b. Types of visco-elastics
 - c. Lesions of IIIrd cranial nerve palsy
 - d. Anti-viral drugs
 - e. Low visual aids

X

POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/OCTOBER - 2017

**MS OPHTHALMOLOGY
(PAPER TWO)**

OPTICS, REFRACTION & CLINICAL OPHTHALMOLOGY- I

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Classify ptosis. Discuss in detail about its management. (20)

Q. 2. What is secondary glaucoma? Discuss about clinical presentations & management of lens-induced glaucoma. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Management of cataractus sub-luxated lens
- b. Marginal keratitis
- c. Investigations for diplopia

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Amniotic membrane transplant
- b. Irido-corneal syndrome
- c. Microspherophakia
- d. Contrast sensitivity
- e. Congenital stationary night blindness

X

POST GRADUATE (MD/ MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

**MS OPHTHALMOLOGY
(PAPER THREE)**

CLINICAL OPHTHALMOLOGY-II & INVESTIGATIVE OPHTHALMOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss the international classification of ocular trauma. What are the posterior segment manifestations of trauma and their management? (20)
- Q. 2.** Classify esotropia. Discuss management of esotropia in 5 year old child. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- Clinical features, differential diagnosis and management of a case of Coat's disease.
 - Principles and indications of sclera buckling surgery
 - Management of bilateral retinoblastoma
- Q. 4. Write short notes on:** (5 x 6 = 30)
- Mono-fixation syndrome
 - Ocular toxoplasmosis
 - Carotid cavernous fistula
 - AMPPE
 - ICG angiography

X

POST GRADUATE (MD/ MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

**MS OPHTHALMOLOGY
(PAPER FOUR)**

**RECENT ADVANCES, SYSTEMIC OPHTHALMOLOGY, COMMUNITY OPHTHALMOLOGY &
MEDICOLEGAL ASPECTS IN OPHTHALMOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Enumerate the various short term and intermediate term methods for corneal preservation. What are their main constituents? Discuss advantages and disadvantages of these media. (20)
- Q. 2.** Discuss the techniques, indications, advantages, disadvantages and long term results of Descemet's stripping endothelial keratoplasty. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Ocular manifestations in sarcoidosis
 - b. Systemic associations of retinitis pigmentosa
 - c. Discuss briefly the pathology and ocular manifestations of giant cell arteritis or pulseless disease.
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Struge Weber syndrome
 - b. Empty sella syndrome
 - c. Sjogren's syndrome
 - d. Informed consent
 - e. Vision 2020

X