**Glaucoma**

1. Development and anomalies of AC with their application in health and disease.
2. Discuss Changing concepts in mx of endothelial dysfunction (**dec 2005)**
3. Endothelial pump (**dec 2005)**
4. Medical management of glaucoma.
5. NVG- causes and management.
6. Outline etiopathogenesis of NVG, its various features, possible mx options’2011
7. HVF analysis.
8. Steroid induced glaucoma.
9. Gonioscopy.

10. Surgical management of congenital glaucoma.

11. Automated perimetry- Indication and utility.

12. Phacolytic glaucoma and mx (**dec 2007)**

13. Neuroprotection and its mechanism of action/ in glaucoma,

14. Causes of secondary glaucoma. Pattern of rise of IOP in postuveitic glaucoma.

15. Target IOP.

16. Field changes in OAG.

17. Clinical feature and management of ACG.

18. Dorzalamide.

19. MMC(mitomycin c) in ophthal (**MAY 2009)**

20. Dynamic of aqueous humour synthesis in health and diseases. Mechanism of drugs affecting it.

21. Advances in the management of glaucoma (**MAY 2008)** and their limitations. (**dec 2009)**

22. Pathogenesis and management of malignant glaucoma.

23. Correlate mx of malignant glaucoma to its pathogenesis (**MAY 2008)**

24. Side effects of glaucoma medications.

25. Optical principles of various means of appreciating angle. Critically analyze the methodologies available of aiding visualisation through gonioscope (**dec 2009)**

26. Angle anomalies.

27. Briefly discusss disorders exhibiting developmental anomalies of the angle. Describe the stages of dev of angle structures and aquous outflow channels **MAY 2007**

28. Discuss development & abnormalities of anterior chamber angle with their applications to functions in health and disease (**MAY 2008)**

29. Prostaglandins in glaucoma. **(** **MAY 2007)**

30. Mx of postoperative shallow AC following filtering surgery**(** **MAY 2007)**

31. BAB.

32. Discuss Pre-perimetric glaucoma (**dec 2005)** & its diag, factors in progression of field defects. **(MAY 2010)**

33. Surgical management of failed trab. (**dec 2005)**

34. Classify 20 glaucoma. Diagnosis and management of lens induced glaucoma’s.

35. Strategies to decrease morbidity by glaucoma in the country. Ideal model for glaucoma service in a tertiary care centre.

36. Nerve fiber layer with reference to glaucoma.

37. Congenital glaucoma.

38. Angle recession.

39. Phakomatosis---Sturge- Weber syndrome.

40. ICE syndrome

41. Nerve fibre layer with spl ref to glaucoma

42. PX syndrome.

43. Aphakic glaucoma.

44. ONH evaluation.

45. Releasable sutures.

46. CLASSIFY secondary glaucoma.outline in flow chart steps to diag , mx of various types of lens induced glaucoma (**dec 2005)**

47. Management of encapsulated bleb following filtering surgery.

48. Analyze critically the side effects of various antiglaucoma medications (**MAY 2009)**

**Retina- vitreous and trauma**

1. Pathology of ARMD and management.
2. Ocular manifestation of HIV and their management. (**DEC 2008)**
3. Anti- VEGF agents\*\* **(** **MAY 2007)**- role in ocular pathologies (**DEC 2008)**
4. Prognostic significances of various manifestation of ocular trauma on the globe and adnexae, as appreciated in your casualty. (**DEC 2008)**
5. Wide angle viewing system.
6. Postoperative endophthalmitis.
7. Evaluate the rational mx of endophthalmitis including a critical note on therapy induced problems(**MAY 2008)**
8. ROP and plus disease.
9. PDR.

10. BRVO.

11. Evaluate vision threatning injuries , discuss principles for their mx from the standpoint of best possible outcomes (**dec 2009)**

12. Hyphema.

13. Pseudophakic endophthalmitis.

14. Intravitreal gases.

15. Lasers in ophthalmology.

16. Vasculitis and describe WG.

17. Chorioretinits.

18. Pars plana surgery and its indications.

19. ERG.

20. ICG dye in ophthalmology.

21. Macular hole- pathophysiology,inv , tt, with spl ref to recent advances

22. Discuss oct features of Macular hole in relation to mx. Discuss factors prognosticating the Tt outcome’2011

23. Lattice degeneration of retina.

24. CSR- etiology, clinical features and management.

25. Current trends in mx of CSR **(** **MAY 2007)**

26. Expulsive choroidal hemorrhage.

27. Recent advances in management of ARMD.

28. Critically analyse changing scenario in mx of ARMD (**MAY 2009)**

29. Various dyes in ophthalmology.

30. INTRAOCULAR DYES (**dec 2005)**

31. ICG angiography.

32. Pathology of DR. Management of DME.

33. PFCL.

34. Blood supply of retina and ON.

35. Anatomy and physiology of rods and cones. Factors influencing dark adaptation.

36. PHPV.

37. Role of antioxidants in ophthalmology.

38. Development of eye. Retinal disorders related to development of eye.

39. Optics of binocular indirect ophthalmoscope. **(MAY 2010)**

40. mERG.

41. Drug delivery implants in eye.

42. Vitreous substitutes & viscoelastics (**dec 2005)**

43. Contrast sensitivity.

44. Intravitreal steroids.

45. 25g vitrectomy.

46. Ocular toxoplasmosis. **(** **MAY 2007)**

47. HTN- ocular features with special reference to PIH. (**dec 2007)**

48. CRVO.- (newer modalities in mx)/ surgical intervention

49. Ocular cysticercosis.

50. IFC.

51. Terson’s syndrome.

52. Asteroid hyalosis and synchysis.

53. Cherry red spot.

54. RIOFB.

55. PIH.

56. Hematological disorder in retina.

57. Ocular TB.

58. Ocular melanoma.

59. Ocular photo toxicity.

60. VKH.

61. Sarcoidosis.

62. Ocular sarcoidosis **(MAY 2007)**

63. Describe clinical features, diag, mx of ocular sarcoidosis’ may 2011

64. Leprosy.

65. FFA.

66. ONH drusen.

67. ETDRS.

68. Open globe injury.

69. RD surgery.

70. OCT.

71. Role of OCT and FFA in retinal disorders. **(MAY 2010)**

72. RD with PVR.

73. GRT.

74. VH.

75. Secondary rhegmatogenous retinal detachment.

76. DISCUSS changing concepts in mx of diff types of retinal detachment\*\*

77. Current trends in VRSx and macular procedures. (**dec 2009)**

78. Critically evaluate mx of Dropped nucleus. **(MAY 2010)**

79. Discuss Suprachoidal hemorrhage & expulsive hge & their mx (**MAY 2008)/** pathophysiology & mx (**dec 2005)**

80. Recognition & mx of massive suprachoroidal hge **(MAY 2010)**

81. RPE and its significance.

82. Care of ophthalmoscope. **(MAY 2010)**

83. Ocular USG.

84. C/F and genetic screening of primary retinal pigment disorders.

85. Development of vitreous and its examination.

86. Electron microscopy of rods and cones.

87. Macular pigments in health and disease.

88. Management of recalcitrant DME. **(MAY 2007)**

89. Verteporfin. (**dec 2007)**

90. Dystrophies and degenerations in eye.

91. Endophthalmitis.

92. Analyse Role of genetics in retinal disorders. (**MAY 2009)**

93. Toxocariasis.

94. Pseudophakic CME.

95. Discuss pathogenesis, features, investigations & mx of diffuse diabetic macular edema’2011/ pathophysiology, inv, mx with recent developments (**dec 2005)**

96. Discuss ocular changes in hypertension & their mx strategies **(MAY 2010)**

97. Current concepts in DR & their relevance to mx. (**MAY 2009)**

98. Discuss the screening protocol/ schedule of ROP and guidelines for intervention (**MAY 2009)** (**dec 2005)\*\***

99. Discuss the changing concepts in mx of high myopia. With a clinical appraisal of the methods available.

**Lens and cataract**

1. Functional and surgical anatomy of lens & Maintenance of transparency of lens thr’out the life. **(MAY 2010)**
2. Subluxation of crystalline lens\*\*\*- Causes, D/D and management. (**dec 2009)**/ causes, tabulate differential diagnostic featutes , schematic flow chart to guide mx in diff situations of lens sublaxation (**dec 2005)**
3. Detail your xam, inv, mx in sublaxated lens in 6yr boy (**MAY 2008)**
4. Critically evaluate multiocals in ophthalmic practice **(MAY 2007)**
5. SFIOL. (**dec 2005)**
6. Viscoelastics.
7. Newer IOLs.
8. PCO and its prevention.
9. CTR

10. IOLs to aid near vision.

11. Mechanism of accommodation. Method of assessment of anomalies of accommodation. **(MAY 2007)**

12. Aspheric lenses. **(** **MAY 2007)**

13. Bimanual phaco. **(** **MAY 2007)**

14. Critically evaluate newer concepts in phacoemulsifications including bimanual (**dec 2007)**

15. Newer concepts in phaco.

16. Reach in programme.

17. Developmental cataract.

18. Critically evaluate mx of developmental cataract (**MAY 2008)**

19. Pros and cons of accommodative and newer IOLs in ophthalmic practice

20. Principles of cataract surgery in different ocular situations.

21. Strategies to control cataract blindness in India.

22. Chop techniques.

23. Methods of surgical anesthesia in cataract surgery.

24. Phaco in small pupil.

25. Aphakia in children - management.

26. Posterior polar cataract and its management.

27. Visual acuity in children.

28. SICS.

29. Lensometer.

30. Complicated cataract.

31. Critically evaluate a case of complicated cat, its mx’2011

32. Procedures to obtain emmetropia in IOL implantation.

33. Congenital Rubella syndrome.

34. Posterior capsulorrhexis.

35. Pathogenesis of senile cataract. IOL power calculation. Newer IOL materials and design.

36. Toric IOL.

37. Post-uveitic cataract.

38. Traumatic cataract.

39. Diabetic cataract.

40. Decentered IOL.

41. Discuss development of lens, with respect to (various known types of cong cat’may 2011)/ clinical application **(MAY 2007)**

42. Describe development of human lens and its structure including methods for its detailed clinical examination and documentation

43. Critically discuss pros & cons of accommodative & newer IOLs in ophthalmic practice (**DEC 2008)**

44. What are the dd of postoperative inflammation following cat sx with respect to mx. **(MAY 2010)**

45. Ciliary sulcus

46. Intra- lenticular foreign body **(** **MAY 2007)**

**Cornea**

1. AMG- technique & application in ophthal
2. Corneal dystrophy- Classification, Describe stromal dystrophies.
3. Ocular surface disorders and their management.
4. Factors involved in corneal transparency.
5. Nonresponding bacterial corneal ulcer.
6. Fungal corneal ulcers
7. Posterior keratoconus
8. Limbal stem cells
9. What r Limbal stem cells? Clinical and applied significance.

10. Reccurent pterygium

11. Customise eximer laser corneal ablation

12. Antiviral agents

13. Antifungal drugs

14. Lamellar corneal surgery

15. Discuss Lamellar keratoplasties & their role in corneal disorders (**MAY 2009)**

16. Tear film and its changes in iatrogenic situations

17. Discuss the management of shallow Ac after keratoplasty (**dec 2005)**

18. Surgical treatment for marginal corneal ulcer(**dec 2005)**

19. Stem cell deficiencies (**dec 2005)**

20. Discuss in detail corneoscleral limbus and its importance

21. Anatomy of limbus

22. Vital stains in corneal evaluation

23. Discuss aetiology,inv,Tt with spl ref to recent advances in dry eyes (**dec 2005)**

24. Evaluate recent trends in inv & mx of dry eyes **(MAY 2010)**

25. Classify chemical injuries and discuss their prognostic indicators. Outline various management modalities. Current advances and sequelae

26. Mx of acute chemical burn (**dec 2005)**

27. Evaluate recent trends in mx of chemical injuries & their sequelae. **(MAY 2010)**

1. Planning an ideal eye bank at a tertiary Ophthal hospital.

29. Clinical features, diagnosis, and current concepts/approach in management of fungal keratitis. **(** **MAY 2007)**

30. Evaluate imp aspects in mx of fungal corneal ulcers. **(MAY 2010)**

31. Corneal topography **(** **MAY 2007)**

32. Peripheral corneal thinning disorders and their M/t (**dec 2007)**

33. LASIK Sx and its complications

34. Risk factors for corneal graft rejection

35. Role of steroids in keratitis

36. Viral conjunctivitis

37. Acute haemorrhagic conjunctivitis

38. DISCUSS intricacies in diag & best mx of conjunctivitis (**DEC 2008)**

39. Acanthamoeba keratitis

40. Cosmetic contact lens

41. Selection of contact lenses

42. Herpetic stromal keratitis

43. Corneal preservation

44. Dry eye syndrome

45. Corneal complication of IOLs

46. Xerophthalmia

47. Ocular surface

48. Keratoconus

49. Astigmatic and refractive corneal surgeries

50. Peripheral degeneration

51. Corneal opacity and its congenital Variant

52. Staphyloma

53. Limbal dermoid

54. Sclerocornea

55. Failed graft

56. Exposure keratitis

57. Spheroidal degeneration

58. Viral keratitis

59. Scleritis

60. BSK

61. Salzmann nodular degeneration

62. Spheroidal degeneration

63. Neuroparalytic keratitis

64. Critically evaluate the principles, advantages, and limitations of various keratometers. Recent advances in examining and documenting cornea

1. Non healing keratitis (**dec 2009)**

66. Describe the optical principles & application of corneal topography. Discuss concepts of mx of keratoconus.’ May 2011

67. Recent advances & concepts in corneal grafting with spl ref to high risk keratoplasty **(MAY 2010)**

68. Critically evaluate organization of ideal blood bank with ref to miaximize the needs of our region **(MAY 2010)**

69. Critically discuss recent advances in keratorefractive procedures (**MAY 2008)**

70. Discuss the changing scenario in diverse refractive procedures and measures(**DEC 2008)/** critical note on selection of pt for these (**dec 2009)**

**Optics**

1. Merits and demerits of modalities of management of myopia
2. Details of areas visualized , discuss optics and application of various viewing systems in vitrectomy/ specular microscopy \*\*\*(**DEC 2008)**
3. Optical aberrations
4. Theory of accommodation
5. Discuss about accomodation of eye in detail
6. Discuss the mechanism of accommodation of eye in detail. Discuss the methods for assessment of anomalies of accomodation
7. Paediatric vision testing
8. Lensometer
9. Automated perimetry- indications and utility

10. Use of cross cylinders

11. Role of contrast sensitivity

12. Contrast sensitivity in ophthal

13. Oct in ophthal\*\*\*(**dec 2005)**

14. Streak retinoscopy (**dec 2005)**

15. UBM and its role in ophthal today **(MAY 2010)**

16. Discuss various LVA available , and their clinical applicability

17. What are low vision aids? Discuss their indications and optical principles (**dec 2005)**

18. Describe the anatomy and physiology of rods and cones. What factors influence dark adaptation?

19. Compound astigmatism

20. Theories of color vision

21. Anisometropia – hyper >1D, astig>1D, myop>3D

22. Optics of indirect ophthalmoscope

23. Selection of cycloplegic and mydriatic

24. Multifocal ERG

25. Subjective verification of refraction\*\* **(** **MAY 2007)**

26. Discuss the basic principles which are applied in Mx & correction of astigmatism (**dec 2005)**

27. Describe the mechanism of dark adaptaion with respect to anatomy & physiology involved (**dec 2005)**

28. Uniocular diplopia (**dec 2005)**

29. Discuss with labeled diagrams optical principles of ophthalmic operating microscopes and their various technological advances

30. Discuss with labeled diagrams optics of operating microscopes with special reference to ophthal\*\*

31. Advances in diagnostic ultrasonography (in ophthal)\*\* (**dec 2005)**

32. Keratometers – principles, advantages, limitations. Recent advances in examining and documenting cornea – confo/ specular/ pentacam/ ASOCT/ UBM/ WAVE FRONT

33. Presbyopia and its management (**dec 2005)**

34. Detail the selection criteria for your own ophthalmoscopes and the care you should exercise for their maintenance and maximum utilization (**MAY 2008)**. (**dec 2007)**

35. Practical application of ophthalmoscope.

36. Discuss the principles, evolution and application of OCT in ophthal as compared to other modalities. (**dec 2009)**

37. Critically evaluate principles of various keratometers, their advantages & limitations. What are the recent advances in examining and documenting cornea (**dec 2009)**

38. Discuss subjective verification of refraction and role of autorefractors’ may 2008

39. Recent concepts of psychophysiology of color vision. Compare the various modalities available to critically assess color perception (**dec 2005)**

40. Discuss problems and applied aspects of color vision tests and color visual field examination

41. Describe mechanism of accommodation, & assessment and mx of presbyopia’ may’2011

42. Describe corneal topography & its dovumentation & their applied aspects (**MAY 2009)**

**Instruments**

1) USG

2) OCT

3) FA

4) ICG

5) PENTACAM

6) ASOCT

7) UBM

8) IOL MASTER

9) SLIT LAMP

10) MICROSCOPE

11) VITRECTOMY – WAVS

12) CORNEAL TOPOGRAPHY

13) Km

14) Pachymetry

15) Specular

16) Confoscan

17) GDx

18) HRT

19) DCT

20) AR

21) ORBSCAN

22) OPHTHALMOSCOPE

23) LENSES

24) ORA (OCULAR RESPONSE ANALYZER)

25) I/O

26) ERG

27) mf ERG

28) Colour vision

29) Contrast

30) Dev of eye

31) Degn and dystr of eye (**MAY 2008)**

32) Retinal disorders in ref to development

33) Dyes

**Oculoplasty**

1) Classification of blepharoptosis & its relevance to Mx & complication\*\* (**DEC 2008)**

2) Classify extraocular and intraocular tumours with a note on their prognosis (**dec 2009)**

3) Lacrimal gland lesions – dd/ Mx\*\* (**DEC 2008)**

4) Lacrimal pump mechanism- structural and functional ( dysfunctional) aspects\*\* ((**DEC 2008)**

5) Orbital spaces , significance in investigation and salient disorders (**DEC 2008)**

6) Describe the spaces of orbit , discuss their surgical importance

7) Dd of a painless nodular progressively increasing swelling of the lower lid in 6oyr male

8) Discuss etiology & mx of unilateral proptosis in 3yr old boy

9) Dd, mx of unilateral proptosis (**MAY 2008)**

10) Pseudotumor of orbit

11) Describe and discuss the mx of pseudotumors in orbit

12) Mx of chronic dacryocystitis

13) Surgical mx of congenital ptosis

14) Describe various thyroid function tests, give clinical picture & mx of hyperthyroidism with spl regard to ocular involvement

15) Describe in detail the clinical pic, dd, mx of lacrimal gland tumors

16) Discuss the anatomy of sup orbital fissure

17) Myasthenia gravis

18) Myasthenia – ocular aspects(**MAY 2008)**

19) Exophthalmometry

20) Carotico cavernous fistula

21) Optic nv glioma

22) Describe the etiology, clinical features, mx of a case of unilateral proptosis

23) Critically analyze the recent advances in orbital and canalicular interventions with spl ref to trauma (**dec 2009)**

24) Classify the extraocular and intraocular tumors. Note on their prognosis

25) Transfrontal orbitotmy- procedure, indications

26) Describe & discuss the principles and techniques of lid reconstructions

27) Discuss the various avenues of mx of bilateral RB in 1yr chld

28) Critically evaluate treatment strategies for 18 month old bilateral RB (**dec 2005)**

29) Enumerate the ocurlar changes in thyroid dysfunction and its mx

30) Describe tear formation & its drainage mechanism. How would you diagnose and manage different types of lacrimal obstruction

31) Phacomatosis **(** **MAY 2007)**- NF1- OP , rest – squint –AAO

32) Cavernous sinus thrombosis

33) Entropion correction

34) Describe the progressive clinical features of dysthyroid ophthalmopathy, its diagnosis modalities, indiactions for intervention, surgical mx- (**dec 2005)**

35) Discuss the role of newer modalities of mx in RB with their indications, and details of the ttherapies \*\*\*

36) Critically evaluate the T/t strategies for 18m old child with bilateral RB

37) Recent classification of RB

38) Mucormycosis

39) Discuss various modalities of mx in a case of ptosis and their indications. Critically evaluate the operative procedures available and appropriate steps for prevention and treatment of postoperative problems

40) Describe investigations for intraocular malignancies in an adult and options for their mx

41) Applied anatomy of orbital apex (**dec 2005)**

42) Describe with diagrams the anatomy of orbit and its spaces & their clinical significance (**dec 2005)**

43) Tear film and its changes in iatrogenic situations (**dec 2005)**

44) Discuss tear films & dynamics in diseases and medications and their evaluation’ may 2008

45) Outline your approach for the evaluation and mx of a case of failed ptosis sx’11

46) Discuss the dd of pulsatile proptosis. Outline your approach to their investigation and mx(**dec 2005)**

47) Blow out # orbit

48) Orbital # in relation to structural anatomy (**MAY 2008)**

49) Mx of failed DCR

50) Evaluate in detail the surgical mx & your criteria for decision making in a case of cong ptosis\*\*(**dec 2007)**

51) Discuss the functional and surgical anatomy of orbit along with their development. Their various important disorders and anomalies\*\* (**dec 2009)**

52) Outline the dd & mx of watering of eye in children (**MAY 2008)**

53) Evaluate the mx of functional epiphora (**MAY 2009)**

54) How would you manage a case of proptosis in child (**MAY 2009)**. Dd of proptosis in child, Mx of orbital cellulitis in a child (**dec 2005)**

55) Acquired ptosis **(MAY 2007)**

56) Discuss the dd, mx of unilateral orbital cellulitis (**dec 2007)**

57) Genetic transmission of RB (**dec 2005)**

58) Role of various investigative modalities in retinoblastoma **(MAY 2010)**

59) Recent classifications of RB from clinical and pathological viewpoints with spl ref to prognosis & mx (**MAY 2008)**

60) Lid margin

61) Outline the surgical and functional anatomy of LPS **(MAY 2010)**

62) Outline your approach for evaluation and mx of a)failed ptosis sx (**dec 2005)**& b)ptosis in spl situations(complicated ptosis)’2011

63) Dd & mx of a growth of the lateral part of eye lids’2011

64) How would you approach and manage a suspected case of blowout #’2011

65) Decribe in detail ur approach to management of a case of unilateral axial proptosis in adult **(MAY 2007)**

66) Acute proptosis in children \*\* (20)

**Misc**

1. Role of stem cells with spl ref to ophthal (**DEC 2008)**
2. Techniques and application of AMG in ocular disorders (**DEC 2008)**
3. Discuss iatrogenic disorders of eye (**DEC 2008)**
4. Indications & hazards of radiation to eye (**DEC 2008)**
5. Critically evaluate Nutritional factors causing ocular morbidity (**DEC 2008)**
6. How would you Organize an upgraded residency training program in ophthal in your institute (**DEC 2008)**
7. Collagen shield
8. Eye banking and legislation
9. Describe disinfection and sterilization in ophthal in relation to common inv and OT

10. Immunosuppressant

11. Artificial eye

12. Discuss the importance of genetics(molecular genetics) in ophthal

13. Write a critical note on role of genetics in important blinding disorders (**dec 2007)**

14. Describe the clinical features, diag, mx of a case of methyl alcohol poisoning (**dec 2005)**

15. Write briefly on metastatic lesions of eye

16. Discuss the role of antioxidants in eye

17. Persistent pupillary membrane

18. Eye in epidemic dropsy

19. Classify Immunomodulators & discuss their role in various ophthalmic disorders (**dec 2009)**

20. Drug delivery implants in eye

21. Structure and function of pigmented epithelium throughout eye **MAY 2008**

22. Discuss retinal pigment epithelium & its functional significance **(MAY 2010)**

23. Outline dystrophies and degn of eye

24. Juvenile systemic disorders affecting eye (**MAY 2008)**

25. Outline ocular lesions connected with specific systemic infections (**MAY 2009)**

26. Outline imp systemic disorders affecting eye & their salient ocular symptoms and signs (**dec 2009)**

27. Ocular manifestations of head injuries vis-a-vis their role in mx (**MAY 2009)**

28. Anterior segment of newborn (**dec 2005)**

29. Discuss the visual perception and its evaluation **(MAY 2007)**

30. Ocular manifestation of connective disorders (**dec 2005)**

31. Prisms in ophthal- slit lamp/IO/ operating microscope/ applanation.

32. Discuss about the changing concepts in mx of diff types of RD

33. Role of telemedicine in ophthal

34. Hematological disorder in ophthal

35. Discuss the etiology, mx perspective of advanced terminal situations on the verge of total blindness (**dec 2009)**

36. Dd of poor vision in child. How would you manage such a child (**dec 2009)**

37. Dev of eye

38. Drug implant

39. Discuss classifications of ocular trauma. Outline the types of IOFBs and their critical mx’2011/ mx IOFB (**dec 2005)**

40. Depict cavernous sinus, discuss their ophthalmic connections. Outline every day application of ophthalmoscope and discuss their selection and care.\*\*\*\* May’2011 **MAY 2008** (**dec 2009)**

41. Detail techniques of recording VER/VEP, & their role in opththal’ may 2011

42. Discuss cysticercosis affecting eye, diag, mx ‘ may 2011

43. Discuss phakomatoses affecting the eye’ may 2011

44. Describe blood aquous barrier. Discuss the formation and circulation o aquous humor(in health and disease) with spl ref to various drugs acting on it **(MAY 2007)\*\***

45. Postoperative infections – prevention and mx

**Community**

1. Evaluate Strategies to decrease childhood blindness in vision 2020 (**DEC 2008)**
2. Strategies to control cataract blindness in India
3. Vision 2020 and India (**dec 2005)**
4. Discuss NPCB & vision 2020(the right to sight) with spl ref to combating corneal blindness (**dec 2009)**
5. Eye camp approach vs reach in approach
6. Discuss briefly the problems in rehabilitation of visually handicapped children. How could you organize an effective eye screening program in a semi urban school in your community with spl ref to refr errors.
7. Discuss strategies to reduce ocular morbidities in diabetics in your country
8. Discuss viable strategies to reduce amblyopia at the community level
9. Discuss in detail about reach in program for mx of cat in community\*\*(**dec 2007)**

10. Critically evaluate the visually impaired disability categories and the disability percentages based on severity as per norms\*\*(**dec 2007)**

11. Discuss visual aids and their relevance to our national program for ctrl of blindness and vision 2020 in India (**dec 2007)**

12. Describe briefly recent advances in alleviation of irreversible blindness- LVA, stem cells , retinal implants (**MAY 2009)**

13. Predominant causes of blindness in India and national initiatives for prevention (**MAY 2009)**

14. Outline the strategies to reduce the incidence of various ocular injuries in the community **(** **MAY 2007)**

15. Diabetic retinopathy & vision 2020

16. Design a suitable screening program for diabetic retinopathy at community level, & its importance in the light of recent advances in its management **(** **MAY 2007)**

17. Discuss cataract surgical rate in the context of the national program with spl ref to the visual outcome of such surgeries **(MAY 2010)**

18. Discuss prevention of childhood eye disorders and role of our school health programmes’ may 2011

19. Discuss strategies to reduce morbidity caused by preventable ocular trauma in the country (**dec 2005)**

20. Discuss your strategies for tackling major causes of visual impairment in the community with spl ref to children, under the NPCB, & vision 2020 (**MAY 2008)**

21. Discuss the various approaches to rehabilitation of visually handicapped **(** **MAY 2007)**

**Neuro ophthal**

1. How would you evaluate the integrity of visual pathways? Discuss briefly about localization of their lesions in the context of neuro ophthal\*\*\* (**DEC 2008)** (**dec 2005)**
2. Discuss and describe anatomy, relation of optic nv, and blood supply
3. Papilloedema and head injury
4. Pupillary reaction pathways
5. Describe the pupillary pathways in detail, their affections with diagram. Diff tests to elucidate them
6. Visual cortex
7. Describe etiopathogenesis, clinical pic and mx of AION
8. Drusen of optic nv head
9. Anatomy of optic chiasma, discuss briefly the various lesions affecting visual fields (role in health and disease)’ **MAY 2008**

10. Describe and discuss inv & mx of a case of ophthalmoplegia

11. Etiology & mx of ophthalmoplegias (**dec 2009)**

12. Toxic optic neuropathy

13. Malingering

14. Describe etiopathogenesis and appearance of visual field changes in neurological disorders

15. Amaurosis fugax

16. Pulse steroid therapy- tr ON, ON, early rejection PK, VKH, AION

17. Pituitary lesions for ophthalmologist

18. Discuss etiopathogenesis, dd, mx of unilateral swelling of ON head

19. Multiple sclerosis (ocular aspect) (**MAY 2008)**

20. Functional anatomy of optic nv head (**MAY 2009)**

21. Critically evaluate dd of failing vision in elderly pt (**MAY 2009)**

22. Detail your exam and mx in a case of anisocoria (**dec 2007)**

23. Clinical feature and mx of ocular migraine

24. Drug induced optic neuropathies

25. Discuss 3rd nv palsy **(MAY 2010)**

26. Anatomy of 3rd , 4th, 6th cranial nv

27. Discuss clinical features and mx of toxic amblyopia’ may 2011

**Squint**

1. Describe diff protocols for Tt of cong esotropia
2. Sup oblique
3. Worth 4 dot test
4. Describe inv & mx of esotropia in 1yr child
5. Method & siginificance of bagolini’s striated glasses test
6. Etiology, diag, mx of sup oblique overaction
7. Kestenbaum Anderson procedure
8. Annulus of zinn
9. Lat rectus resection

10. Functional anatomy of ext oc muscles, with a note on their dev

11. Describe briefly origins, insertions, and action of extraocular muscles/(functional anatomy, development) and discuss the functional basis of various restrictive squint **(** **MAY 2007)\*\***

12. Esotropia in 5yr old

13. Comprehensive assessment of binocular vision (**dec 2005)**

14. Anatomical & physiological basis of binocular vision **(MAY 2007)**

15. Briefly discuss binocular vision (**MAY 2009)**

16. Surgical options for nystagmus and their outcome\*\*(**dec 2005)**

17. Microtropia\*\*(**dec 2005)**

18. Dissociated vertical deviation

19. Non surgical mx of esotropia **(** **MAY 2007)**

20. Applied anatomy of 3rd cranial nv ncl\*\* **(** **MAY 2007)**

21. Mx of vertical diplopia (**MAY 2009)**

22. Faden operation **(** **MAY 2007)**

23. Botulinum toxin in ophthal\*\* **(MAY 2007)** (**dec 2005)**

24. Discuss amblyopia, & recent trends in mx**(DEC 2007)**

25. Infantile esotropia (**dec 2005)**

26. Adjustable sutures in squint sx (**dec 2005)**

27. What are the sensory adaptations in strabismus & their clinical significance (**dec 2009)**

28. Vision assessment in child

29. Evaluate various transposition sx in strabismus’ may 2011

30.

**Uvea**

1. Discuss various ophthalmic manifestations of hansen’s ds
2. Describe etiopathogenesis of intermediate uveitis & its mx
3. Uveitis – types, aetiologies, recent advances in mx
4. intermediate uveitis
5. Describe briefly : white dot synd
6. Heterochromic iridocyclitis
7. Short note on : white iritis
8. Coloboma of uveal tract
9. Investigative profile in uveitis

10. Classify uveitis, describe clinical features of intermediate uveitis & its mx

11. Still’s disease

12. Surgical mx of complications of uveitis (**dec 2005)**

13. Dd , mx of bilateral panuveitis **(** **MAY 2007)**

14. Scleritis

15. Presentation, inv, mx of paediatric uveitis’ 2011

16. Classify uveitis, enumerating the role of various investigations with respect to mx modalities **(MAY 2010)**