

M.S. DEGREE EXAMINATION, MARCH 1990.

Branch III — Ophthalmology

Part I

APPLIED BASIC SCIENCES

Time : Three hours.

Each Section is to be answered in separate answer book.

SECTION A — ANATOMY

Answer any TWO questions.

1. Describe the anatomy of the upper eyelid.
2. Describe the bony orbit.
3. Write briefly on :
 - (a) Lacrimal gland.
 - (b) Pigment epithelium.

SECTION B — PHYSIOLOGY

Answer any ONE question.

4. Discuss the factors regulating the normal intra ocular pressure.
5. Write briefly on :
 - (a) Pupillary reflexes.
 - (b) Monocular perception of depth.

MARCH 1990

SECTION C — BIOCHEMISTRY

Answer any ONE question.

6. Describe the metabolism of cornea. What are the factors responsible for the corneal transparency?
7. Write briefly on :
 - (a) Composition of tear film.
 - (b) Wilson's disease.

SECTION D — PATHOLOGY

Answer any ONE question.

8. Describe the pathology of sympathetic ophthalmitis. Add a note on cell-mediated immunity.
9. Write briefly on :
 - (a) Meibomian gland carcinoma.
 - (b) Meningioma.

SECTION E — MICROBIOLOGY

Answer any ONE question.

10. Discuss in brief the morphological features and ocular manifestations of viruses affecting the eye.
11. Write briefly on :
 - (a) *Toxoplasma gondi*.
 - (b) Pneumococci.

SECTION F — PHARMACOLOGY

Answer any ONE question.

12. Write short notes on :
 - (a) TIMOLOL.
 - (b) Oral hypoglycaemic drugs.
13. Write short notes on :
 - (a) Sodium cromoglycate.
 - (b) Cephalosporins.

M.S. DEGREE EXAMINATION, OCTOBER 1990.

Branch III — Ophthalmology

Part I

Paper I — APPLIED BASIC SCIENCES

Time : Three hours

Each Section is to be answered in separate answer book.

SECTION A — (ANATOMY)

Answer any TWO questions.

1. Describe the minute anatomy of the angle of the anterior chamber.
2. Discuss the anatomy and development of vitreous.
3. Write briefly on :
 - (a) Bruch's membrane.
 - (b) Ciliary ganglion.

SECTION B — (PHYSIOLOGY)

Answer any ONE question.

4. Discuss the protective mechanisms of the eye.
5. Write briefly on :
 - (a) Pannum's area.
 - (b) Accomodation.

OCTOBER 1990

SECTION C — (BIOCHEMISTRY)

Answer any ONE question.

6. Discuss the metabolism of human lens.
7. Write briefly on :
 - (a) Kreb's cycle.
 - (b) Composition of aqueous humour.

SECTION D — (PATHOLOGY)

Answer any ONE question.

8. Describe the histopathology of retinoblastoma.
9. Write briefly on :
 - (a) Lymphoma.
 - (b) Basal cell carcinoma.

SECTION E — (MICROBIOLOGY)

Answer any ONE question.

10. Describe the morphology, cultural characters and ocular manifestations of TRIC virus.
11. Write briefly on :
 - (a) *Pseudomonas aeruginosa*.
 - (b) Rhinosporidiosis.

SECTION F — (PHARMACOLOGY)

Answer any ONE question.

12. Discuss the anti-tuberculous drugs commonly in use.
13. Write briefly on :
 - (a) Acyclovir.
 - (b) Non-steroidal anti-inflammatory agents.

M.S. DEGREE EXAMINATION, MARCH 1991.

Branch III — Ophthalmology

Part I

Paper I — APPLIED BASIC SCIENCES

Time : Three hours.

Each Section is to be answered in separate answer books.

SECTION A — (ANATOMY)

Answer any TWO questions.

1. Give an account of the anatomy of retina. Add notes on :
 - (a) Its development and
 - (b) its histological structure.
2. Describe the course, relations and branches of Ophthalmic Artery.
3. Write briefly on :
 - (a) Superior oblique muscle.
 - (b) Anatomy of lacrimal gland and its nerve supply.

MARCH 1991

SECTION B — (PHYSIOLOGY)

Answer any ONE question.

4. Give an account of the pathophysiology of common errors of refraction.
5. Write briefly on :
 - (a) Control of aqueous formation.
 - (b) Types of colour blindness and the methods of testing it.

SECTION C — (BIOCHEMISTRY)

Answer any ONE question.

6. Discuss Dark adaptation, the biochemical changes involved and its clinical importance.
7. Write briefly on :
 - (a) Precorneal tear film.
 - (b) Biochemical changes in the lens during cataract formation.

SECTION D — (PATHOLOGY)

Answer any ONE question.

8. Discuss the immunological aspects and pathology of corneal graft rejection.
9. Write briefly on :
 - (a) Pathology of pseudotumours.
 - (b) Stromal corneal dystrophies.

SECTION E — (MICROBIOLOGY)

Answer any ONE question.

10. Discuss in detail about mycotic infections of the eye and discuss the laboratory diagnosis.
11. Write short notes on :
 - (a) Diplococci.
 - (b) HLA antigens and eye.

SECTION F — (PHARMACOLOGY)

Answer any ONE question.

12. Discuss the merits and demerits of anti-glaucoma drugs.
13. Write briefly on :
 - (a) Anti-viral drugs.
 - (b) Fluorescein sodium dye.

SEPTEMBER 1991

318 A

M.S. DEGREE EXAMINATION, SEPTEMBER 1991.

SECTION B

Write short notes on :

ANATOMY

1. Bony orbit.
2. Superior oblique muscle.
3. Optic nerve. (3×5=15 marks)

PHYSIOLOGY

1. Accommodation.
2. ERG.
3. Adaptation. (3×5=15 marks)

BIOCHEMISTRY

1. Lens metabolism.
2. Rhodopsin.
3. Corneal transparency (3×5=15 marks)

PHARMACOLOGY

1. Cycloplegics.
2. Cortico steroids.
3. Carbonic anhydrase inhibitor. (3×5=15 marks)

PATHOLOGY

1. Corneal degeneration.
2. Sympathetic ophthalmia.
3. Chalazion. (3×5=15 marks)

MICROBIOLOGY

1. Membranous conjunctivitis.
2. TRIC virus.
3. Adenovirus. (3×5=15 marks)

[318A] MARCH 1992

M.S. DEGREE EXAMINATION, MARCH 1992.

Ophthalmology

Part I

Paper I — APPLIED BASIC SCIENCES

Time : One and a half hours.

Maximum : 90 marks.

SECTION B

Write short notes on three short questions
in each of the following. No choice.

ANATOMY

1. (a) Ultra structure of Trabecular mesh work.
(b) Superior orbital fissure.
(c) Pathway of pupillary light reflex with a diagram.
(3 × 5 = 15 marks)

PHYSIOLOGY

2. (a) Pannus fusional area.
(b) Visually evoked potential.
(c) Lacrymal pump mechanism.
(3 × 5 = 15 marks)

BIOCHEMISTRY

3. (a) Immunoglobulins in human tears.
(b) Citric acid cycle.
(c) Glucose utilisation by cornea.
(3 × 5 = 15 marks)

PHARMACOLOGY

4. (a) Betaxolol.
(b) Tropicamide toxicity.
(c) Vitamin A.
(3 × 5 = 15 marks)

PATHOLOGY

5. (a) Dalen fuchs nodule
(b) Histopathology of Basal cell carcinoma.
(c) Histopathology of involutionary arterio-sclerosis.
(3 × 5 = 15 marks)

MICROBIOLOGY

6. (a) Acid fast staining.
(b) Morphological characters of *Lepra Bacilli*.
(c) Life cycle of *Trachoma* organism.
(3 × 5 = 15 marks)
-

[318]

MARCH 1992

M.S. DEGREE EXAMINATION, MARCH 1992.

Branch III — Ophthalmology

Part I

APPLIED BASIC SCIENCES

(Old Regulations)

Time : Three hours

Each Section is to be answered in separate answer book.

SECTION A — (ANATOMY)

Answer any TWO questions.

1. Give an account of the cavernous sinus, including its connections.
2. Describe the spaces of orbit and the various methods of imaging of the orbit.
3. Write briefly on :
 - (a) Ora Serrata.
 - (b) Blood supply of optic nerve head and the intra-orbital part of the optic nerve.

MARCH 1992

SECTION B — (PHYSIOLOGY)

Answer any ONE question.

4. Discuss the deturgescence of Cornea.
5. Write briefly on :
 - (a) the electrical phenomena of the eye.
 - (b) mechanism of binocular single vision.

SECTION C — (BIOCHEMISTRY)

Answer any ONE question.

6. Discuss the role of vitamin A in vision.
7. Write briefly on :
 - (a) Galactosemia.
 - (b) Alkaptonuria.

SECTION D — (PATHOLOGY)

Answer any ONE question.

8. Classify lacrimal gland tumours and describe its histopathology.
9. Write briefly on :
 - (a) Radiation changes in eye.
 - (b) Dalen Fuchs Nodule.

SECTION E — (MICROBIOLOGY)

Answer any ONE question.

10. Discuss the normal conjunctival flora.
11. Write briefly on :
 - (a) Serodiagnosis of syphilitic infections.
 - (b) Acanthamoeba keratitis.

SECTION F — (PHARMACOLOGY)

Answer any ONE question.

12. Classify the cycloplegic mydriatics in Ophthalmology, describe the modes of action.
13. Write briefly on :
 - (a) Immunosuppressants and eye.
 - (b) β blockers and eye.

APRIL 1994

M.S. DEGREE EXAMINATION.

Branch III — Ophthalmology

Old/New/Revised Regulations

Part I

APPLIED BASIC SCIENCES

Three hours

Maximum 90 marks

(Sec. A and B)

Answer ALL the questions.

Answer each subject in a separate answer book.

SECTION B

Write short notes on :

Anatomy

- (a) Ciliary body.**
- (b) Development of retina and vitreous.**
- (c) Nerve supply of lacrimal gland. (3 × 5 = 15)**

Microbiology

- a) Keratomycoses.
- b) Vernal conjunctivitis.
- c) Normal flora of the conjunctiva.

(3 × 5 = 15)

APRIL 1995

SB 230

M.S.DEGREE EXAMINATION

Old \ New Regulations

Branch III OPTHALMOLOGY

Part -I

Paper I - APPLIED BASIC SCIENCES

Time: Three hours Max. Marks: 180

Answer All Questions

Answer each subject in a separate answer book

ANATOMY

1. Describe the anatomy of the anterior chamber of the eye. (15)
2. Write short notes on :
 - a) Ciliary ganglion
 - b) Development of lens
 - c) Cavernous sinus(3 X 5 = 15)

PHYSIOLOGY

1. Describe the physiology of vision.
2. Write short notes on :
 - a) Accommodation
 - b) Intra-ocular pressure
 - c) Ageing changes in the eye(3 X 5 = 15)

BIOCHEMISTRY

1. Write briefly on carbohydrate metabolism and the regulation of blood glucose level in the body. (15)

2. Write short notes on :

- a) Vit. A
 - b) Limiting amino acid
 - c) Triglycerides
- (3 X 5 = 15)

PHARMACOLOGY

1. Discuss the pharmacology, uses and side effects of Topical steroids in Ophthalmology. (15)
2. Write short notes on :
 - a) Pilocarpine ocusert
 - b) Centrally acting cough suppressants
 - c) Ophthalmic use of Atropine substitutes(3 X 5 = 15)

PATHOLOGY

1. Discuss briefly the pathology of tumours of the eye. (15)
2. Write short notes on :
 - a) Embolism
 - b) Demyelination
 - c) Phagocytosis(3 X 5 = 15)

MICROBIOLOGY

1. Describe the methods of sterilisation of an operation theatre. (15)
2. Write short notes on :
 - a) Ophthalmia neonatorum
 - b) Anterior chamber associated immune deviation
 - c) Microbiology of choroido-retinitis(3 X 5 = 15)

AK 221]

APRIL 1996

M.S. DEGREE EXAMINATION.

(Old/New/Revised Regulations)

Part I

Branch III -- Ophthalmology

Paper I -- APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 100 marks

Answer each subject in a separate answer book.

Answer ALL questions.

Write short notes :

(ANATOMY)

1. Iris. (8)
2. Central retinal artery. (8)
3. Development of Lens. (7)
4. Trochlear nerve. (7)

(PHYSIOLOGY)

5. Light adaptation. (8)
6. Colour vision (theories). (8)
7. Test for Accommodation. (7)
8. Functions of Aqueous humor.

[AK 221]

APRIL 1996

(BIOCHEMISTRY)

- | | | |
|-----|---|-----|
| 9. | Cori's cycle. | (8) |
| 10. | Biochemical changes in dark adaptation. | (8) |
| 11. | Albinism. | (7) |
| 12. | Fatty liver. | (7) |

(PHARMACOLOGY)

- | | | |
|-----|-------------------------|-----|
| 13. | Mydriatics. | (8) |
| 14. | Tear substitutes. | (7) |
| 15. | Idoxuridine. | (7) |
| 16. | Beta receptor blockers. | (8) |

(PATHOLOGY)

- | | | |
|-----|--------------------------|-----|
| 17. | Diabetic retinopathy. | (8) |
| 18. | Granulomatous uveitis. | (8) |
| 19. | Trachoma conjunctivitis. | (7) |
| 20. | Basal cell epithelioma. | (7) |

(MICROBIOLOGY)

- | | | |
|-----|------------------------------------|-----|
| 21. | Anaphylaxis. | (8) |
| 22. | Bacterial cell wall. | (8) |
| 23. | Laboratory diagnosis of keratitis. | (7) |
| 24. | Cysticercosis. | (7) |

OCTOBER 1996

M.S. DEGREE EXAMINATION.

(Old/New/Revised Regulations)

Part I

Branch III.— Ophthalmology

Paper I — APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 180 marks

Answer each subject in a separate answer book.

Answer ALL questions.

Write short notes :

ANATOMY

- | | | |
|---|-------------------------------|-----|
| | Circulation of aqueous humor. | (8) |
| 2 | Lachrymal sac. | (8) |
| 3 | Ciliary body | (7) |
| 4 | Extrinsic eye muscles | (7) |

PHYSIOLOGY

- | | | |
|---|-----------------|-----|
| 5 | Near response. | (8) |
| 6 | Daltonism. | (8) |
| 7 | Night blindness | (7) |
| 8 | Wernicke's area | (7) |

BIOCHEMISTRY

- | | | |
|----|-------------------------------|-----|
| 9. | Refsum's disease. | (8) |
| 10 | Composition of vitreous humor | (8) |

[PK 175]

- | | | |
|-----|-------------------------------------|-----|
| 11. | Ketone bodies. | (7) |
| 12. | Calcium binding proteins in muscle. | (7) |

PHARMACOLOGY

- | | | |
|-----|--|-----|
| 13. | Ciprofloxacin. | (8) |
| 14. | Trifluorothymidine. | (8) |
| 15. | Neuroleptic analgesia. | (7) |
| 16. | Beta receptor antagonists in glaucoma. | (7) |

PATHOLOGY

- | | | |
|----|---|-----|
| 17 | Vascular changes in the eye in diabetes | (8) |
| 18 | Dermoid tumor. | (8) |
| 19 | Leber's optic atrophy. | (7) |
| 20 | Exophthalmos. | (7) |

MICROBIOLOGY

- | | | |
|----|------------------------------|-----|
| 21 | Corynebacterium diphtheriae. | (8) |
| 22 | Exotoxins. | (8) |
| 23 | Western blot test. | (7) |
| 24 | Chlamydial infections. | (7) |

MF 200

APRIL 1997

M.S. DEGREE EXAMINATION

Branch III - Ophthalmology

(Old/New/Revised Regulations)

Part I

Paper I - APPLIED BASIC SCIENCES

Time: Three hours

Max.marks:180

Answer All Questions

Answer each subject in a separate answer book

All questions carry equal marks.

Write short notes:

ANATOMY

1. Optic part of retina

2. Ciliary ganglion

Cavernous sinus

Choroid fissure.

PHYSIOLOGY

5. Near response

6. Rhodopsin-Retinal visual cycle

Theories of colour vision

8. Formation, circulation and functions of Intraocular fluid.

BIOCHEMISTRY

9. Sorbitol metabolism

10. Special features of metabolism of cornea.

11. Alkaptonuria

12. Vitamin A and vision.

PHARMACOLOGY

13. Preanaesthetic medication

14. Drugs used in glaucoma

15. Newer insulins

16. Drugs effective in pseudomonas infection.

PATHOLOGY

17. Chalazion

18. Retinoblastoma

19. Juvenile Xanthogranuloma

20. Stromal Keratitis.

MICROBIOLOGY

21. Viral conjunctivitis

22. Kerato mycosis

23. Ophthalmia Neonatorum

24. Antinuclear factor.

MS 198

OCTOBER 1997

M.S. DEGREE EXAMINATION
Branch III - Ophthalmology
(Revised Regulations)

Part I

Paper I - APPLIED BASIC SCIENCES

Time: Three hours

Max.marks:180

Answer each subject in a separate
answer book.

Answer any FOUR questions in each subject.

Write briefly on each topic.

All questions carry equal marks.

ANATOMY

1. Ciliary ganglion
2. Upper eye lid
3. Superior orbital fissure
4. Canal of Schlemm
5. Normal fundus of eye.

PHYSIOLOGY

6. Types of cones in retina
7. Edinger Westphal nucleus
8. Purkinje Sanson images
9. Bitemporal hemianopia
10. Superior colliculus.

BIOCHEMISTRY

9. Sorbitol metabolism
Special features of metabolism of cornea.
11. Alkaptonuria
12. Vitamin A and vision.

PHARMACOLOGY

Preanaesthetic medication

4. Drugs used in glaucoma
15. Newer insulins
16. Drugs effective in pseudomonas infection.

PATHOLOGY

- . Chalazion
18. Retinoblastoma
. Juvenile Xanthogranuloma
20. Stromal Keratitis.

MICROBIOLOGY

21. Viral conjunctivitis
22. Kerato mycosis
23. Ophthalmia Neonatorum
24. Antinuclear factor.

[SV 210] **APRIL 1998**

M.S. DEGREE EXAMINATION.

Branch III — Ophthalmology — Part I

(New/Revised Regulations)

Paper I — APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 180 marks

Answer each subject in a separate answer book.

Answer any FOUR questions in each subject.

All questions carry equal marks.

ANATOMY

1. Development of the eye ball.
2. Structure of the upper eyelid.
3. Histology of cornea.
4. Ciliary ganglion.
5. Actions of extra ocular muscles.

PHYSIOLOGY

6. Intraocular tension.
7. Binocular vision.
8. Amacrine cells.
9. Superior colliculus.
10. Daltonism.

BIOCHEMISTRY

11. Galactose metabolism.
12. Metabolism of crystalline lens.

13. Alkaptonuria.

14. Mechanism of action of Vitamin A.

15. Niemann Pick disease.

PHARMACOLOGY

16. Ocular drug delivery strategies.

17. Autonomic agents used in ophthalmology.

18. Primary indications for the use of antiviral drugs in ophthalmology.

19. Newer drugs for glaucoma management.

20. Wetting agents and tear substitutes.

PATHOLOGY

21. Keratoconjunctivitis.

22. Astigmatism.

23. Chalazion.

24. Hypertensive retinopathy.

25. Retinoblastoma.

MICROBIOLOGY

26. Moraxella.

27. Guinea worm

28. Chlamydiae trachomatis.

29. Diphtheroids.

30. Adenoviruses.

[SM 210] OCTOBER 1998

M.S. DEGREE EXAMINATION.

Branch III — Ophthalmology — Part I

(New/Revised Regulations)

Paper I — APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 180 marks

Answer each subject in a separate answer book.

Answer any FOUR questions in each subject.

All questions carry equal marks.

1 Anatomy

- (a) Development of lens
- (b) Central artery of retina
- (c) Extra ocular muscles
- (d) Orbital fascia
- (e) Coloboma.

2 Physiology

- (a) Neuronal pathways for control of eye movements
- (b) Maintenance of intra ocular tension
- (c) Accommodation reflex
- (d) Maintenance of corneal transparency
- (e) Pathophysiology of lens.

3 Biochemistry

- (a) Specialised products formed from tyrosine
- (b) Galactosemia
- (c) Metabolism of retina
- (d) Deficiency manifestations of vitamin A in the eye
- (e) Regulation of blood sugar.

4. Pharmacology

- (a) Topical use of sulfanomides
- (b) Treatment of acute congestive glaucoma
- (c) Role of local anaesthetics in eye
- (d) Treatment of Herpes simplex kerato conjunctivitis
- (e) Lisinopril.

5 Pathology

- (a) Infections of the orbit
- (b) Benign tumours and tumour like lesions of the eyelid
- (c) Retrolental fibroplasia
- (d) Hypertensive Retinopathy
- (e) Superficial keratitis.

6 Microbiology

- (a) Chlamydia trachomatis
- (b) Toxoplasma gondii
- (c) Fusarium
- (d) Anaphylactic type of hypersensitivity
- (e) Uveitis.

OCTOBER 1999
[KA 210]

Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch III — Ophthalmology — Part I

Paper I. APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 180 marks

Answer each subject in a separate answer book.

Answer any FOUR questions in each subject.

All questions carry equal marks.

1. Anatomy :

- (a) Uveal tract
- (b) The nerve supply and actions of the recti and oblique muscles of the eyeball.
- (c) Origin, course, termination and branches of the ophthalmic artery
- (d) Naso-Lacrimal Duct
- (e) Histology of Retina.

2. Physiology :

- (a) Scotopic vision
- (b) Role of lateral geniculate body in vision
- (c) Visual Acuity
- (d) Trichromatic theory of color vision
- (e) Mechanism of tear formation and its role.

OCTOBER 1999

3. Biochemistry :

- (a) Sorbitol metabolism
- (b) Phenyl ketonuria
- (c) Vitamin A — Supplementation in Indian children a must
- (d) Glycogenolysis
- (e) Diabetic ketoacidosis.

4. Pharmacology :

- (a) Drugs used in Herpes Simplex Keratitis
- (b) Ocular drug delivery systems
- (c) Tear Substitutes
- (d) Steroids in ocular practice
- (e) Mydriatics.

5. Pathology :

- (a) Ocular changes in wilson's disease
- (b) Pannus
- (c) Diabetic retinopathy
- (d) Ocular changes in chromosomal disorders
- (e) Astigmatism.

6. Microbiology :

- (a) Loa Loa
 - (b) Cysticercus
 - (c) Delayed hyper sensitivity
 - (d) Laboratory diagnosis of AIDS
 - (e) Tric agents.
-

[KB 210] APRIL 2000 Sub. Code : 9000

M.S. DEGREE EXAMINATION

(New/Revised Regulations)

Branch III — Ophthalmology — Part I

Paper I — APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 180 marks

Answer each subject in a separate answer book.

Answer any FOUR questions in each subject.

All questions carry equal marks

(ANATOMY)

1. (a) What is Macula Lutea? Give its special features and the representation of the macular fibres in the calcarine cortex

(b) What is pupil? Trace the Pupillary constrictor and Dilator fibres

(c) Give the layers of the upper eye lid from superficial to deep in order

(d) Describe the periosteum of the orbit

(e) Write in detail about the sclera.

APRIL 2000

(PHYSIOLOGY)

2. (a) Factors responsible for the transparency of the lens
(b) Macular sparing
(c) Role of Vit. A in Dark Adaptation
(d) Explain the wave pattern of a typical ERG. (Electro Retino Gram)
(e) Composition and drainage of aqueous humour.

(BIOCHEMISTRY)

3. (a) Mucopolysaccharidoses
(b) Wilson's disease
(c) Biochemistry of vision
(d) Metabolism of cornea
(e) Springolipidoses.

(PHARMACOLOGY)

4. (a) Role of corticosteroids in ophthalmology
(b) ACE (Angiotensin Converting Enzyme) inhibitors
(c) Bacterial Resistance
(d) Preanaesthetic medication
(e) Antihistaminic agents useful in ophthalmology.

(PATHOLOGY)

5. (a) Actinic Keratosis of conjunctiva
(b) Dacryolith
(c) Bullous Keratopathy
(d) Merkel cell carcinoma of eyelid
(e) Inflammatory Pseudotumour of orbit

(MICROBIOLOGY)

6. (a) Bacteriophage
(b) Immunoglobulin M
(c) Nocardia
(d) Inclusion conjunctivitis
(e) Lab diagnosis of Wuchereria Bancrofti

OCTOBER 2000

[KC 210]

Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(New/Revised Regulations)

Branch III — Ophthalmology — Part I

Paper I — APPLIED BASIC SCIENCES

Time : Three hours

Maximum : 180 marks

Answer each subject in a separate answer book

Answer any FOUR questions in each subject.

All questions carry equal marks.

1 Anatomy

(a) Describe the ethmoidal air sinuses with applied importance.

(b) Give the relations of the cavernous sinus. What are the structures traversing the cavernous sinus?

(c) What is light reflex? Give the receptors, neurons, center and nuclei for light reflex.

(d) What is visual cortex? Give its blood supply and the representation of the visual fibres in the visual cortex.

(e) Write about the circle of Willis

OCTOBER 2000

2 Physiology

- (a) Changes in Ocular lens with aging
- (b) Hue discrimination
- (c) Define Visual acuity. What are the factors affecting visual acuity?
- (d) Explain in short the retinal network of the human eye.
- (e) Functions of pupils.

3 Biochemistry

- (a) Biochemical basis of Diabetic cataract
- (b) Inherited disorders of Cornea
- (c) Cholesterol transport disorders
- (d) Metachromatic Leucodystrophy
- (e) Vit. A Deficiency

4 Pharmacology

- (a) Oral hypoglycaemic agents
- (b) Aqueous substitutes
- (c) Immunosuppressants
- (d) Gentamicin
- (e) Idosuridine.

5 Pathology

- (a) Splendore Hoespli Phenomenon
- (b) Fungal endophthalmitis
- (c) Calcific band keratopathy
- (d) Sarcoidosis of eye
- (e) Chloroma.

6 Microbiology

- (a) Ophthalmia neonatorum
- (b) Ziehl Neelson stain
- (c) Lab diagnosis of *Cornibacterium diphtheria*
- (d) Microfilaria
- (e) Loiasis