M.S. DEGREE EXAMINATION, MARCH 1990.

Branch IV — Oto-rhino-laryngology

Part I

APPLIED BASIC SCIENCES

Time : Three hours.

Each section should be answered in separate answer books.

SECTION A — (ANATOMY)

Answer any TWO questions.

1. Describe the anatomy of the organ of corti.

2. Describe the applied anatomy of vascular supply of nose and paranasal sinuses in brief.

3. Write short notes on :

(*a*) Pneumatization of mastoid bone.

(*b*) Cricoid cartilage.

SECTION B — (PHYSIOLOGY)

Answer any ONE question.

4. Discuss the physiology of deglutition.

5. Discuss the physiology of smell.

MARCH 1990

SECTION C — (BIOCHEMISTRY)

Answer any ONE question.

6. Discuss the biochemistry of Allergy.

7. Write short notes on :
   (*a*) Vitamin D.
   (*b*) Labyrinthine fluids.

SECTION D — (PATHOLOGY)

Answer any ONE question.

8. Describe significant lesions of tuberculosis in ENT.

9. Write short notes on :
   (*a*) Rhinoscleroma.
   (*b*) Chemodectoma.

SECTION E — (MICROBIOLOGY)

Answer any ONE question.

10. Discuss maxiliary sinus infection.

11. Write short notes on :
   (*a*) Otomycosis.
   (*b*) Rhinosporidiosis.

SECTION F — (PHARMACOLOGY)

12. Discuss the role of corticosteroids in ENT practice.

13. Write short notes on :
   (*a*) Aminoglycosides.
   (*b*) Common local anesthetic agents.

M.S. DEGREE EXAMINATION, OCTOBER 1990.

Branch IV — Oto-Rhino-Laryngology

Part I

Paper I — APPLIED BASIC SCIENCES

Time : Three hours.

Each Section should be answered in separate answer books.

SECTION A — (ANATOMY)

Answer any TWO questions.

1. Describe the applied anatomy of the Maxillary Antrum.

2. Describe the anatomy of Laryngopharynx.

3. Write short notes on :

(*a*) Sigmoid sinus.

(*b*) Vidian Nerve.

SECTION B — (PHYSIOLOGY)

Answer any ONE question.

4. Describe the structure of Cochlea and the mechanism of hearing.

5. Discuss functions of the Nose.

OCTOBER 1990

SECTION C — (BIOCHEMISTRY)

Answer any ONE question.

6. Discuss biochemistry of CSF in health and diseases associated with ENT.

7. Write short notes on :

(*a*) Immunoglobulins.

(*b*) Vitamin B_{12}.

SECTION D — (PATHOLOGY)

Answer any ONE question.

8. Describe the pathology of Mastoiditis.

9. Write short notes on :

(*a*) Inverted Papilloma.

(*b*) Ludwig's Angina.

SECTION E — (MICROBIOLOGY)

Answer any ONE question.

10. Discuss bacteriology of Chronic Suppurative Otitis Media.

11. Write short notes on :

(*a*) Thrush.

(*b*) Diphtheria.

SECTION F — (PHARMACOLOGY)

Answer any ONE question.

12. Discuss Ototoxic drugs.

13. Write short notes on :

(*a*) Vasodilators in ENT practice.

(*b*) Nasal Drops.

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MARCH 1991

327A APPLIED BASIC SCIENCES

M.S. DEGREE EXAMINATION, MARCH 1991

(New Regulation)

Part I

OTO-RHINO-LARYNGOLOGY

SECTION B

Time : One and a half hours Maximum : 90 marks

Each subject has to be answered in separate answer books.

Write short notes on :

ANATOMY—I

1. Organ of Corti
2. Lateral Wall of Nose
3. Sinus of Morgagni (15 marks)

PHYSIOLOGY—II

1. Olfactory Pathway
2. Weber's Theory of Hearing
3. Taste (15 marks)

BIOCHEMISTRY—III

1. Composition of CSF
2. Gaseous change in Sub-acute obstruction of airway
3. Composition of Endolymph (15 marks)

PHARMACOLOGY—IV

1. Steroids in ENT
2. Classify the Anticoagulants used in ENT
3. Interferon use in ENT (15 marks)

PATHOLOGY—V

1. Malignant Otitis Externa
2. Bleeding Polypus of Nose
3. Keratosis Pharyngis (15 marks)

MICROBIOLOGY—VI

1. Rhinosporidium Seberi
2. Otomycosis
3. Diphtheria (15 marks)

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321 A **SEPTEMBER 1991**

M.S. DEGREE EXAMINATION, SEPTEMBER 1991.

Branch IV — Oto-Rhino-Laryngology

Part I — (New Regulations)

Paper I — APPLIED BASIC SCIENCES

Time : One and a half hours. Maximum : 90 marks.

SECTION B

Answer ALL questions.

Write short notes :

ANATOMY

1. Differences between adult and infant temporal bone
2. Otolyth organs.
3. Blood supply and nerve supply to larynx.

PHYSIOLOGY

1. Olfaction.
2. Mechanism of deglutition
3. Merits and demerits of various caloric tests.

BIOCHEMISTRY

1. Biochemical analysis of perilymph.
2. Biochemical study of CSF in T.B. meningitis.
3. Biochemical study in obstructive Emphysema due to Foreign body.

PHARMACOLOGY

1. Ototoxic drugs
2. Dapsone
3. Anaesthetic drugs used in E.N.T. operations.

PATHOLOGY

1. Pathological features of Atrophic Rhinitis.
2. Pathology of multiple Papilloma.
3. Histopathology of Glomus Jugulare.

MICROBIOLOGY

1. Bacteriological study of chronic suppurative otitis media in adult and children.
2. Microbiological study of bronchial aspirate in bronchiectasis.
3. Throat swab culture study in all types of pharyngitis.

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[321 A] **SEPTEMBER 1992**

M.S. DEGREE EXAMINATION, SEPTEMBER 1992.

Oto-rhino-laryngology

Part I — (Basic Applied Sciences)

APPLIED BASIC SCIENCES

Time : Three hours Maximum : 90 marks

SECTION B

Answer ALL questions.

All questions carry equal marks.

1. Write short notes on :

(a) Pneumatisation of Mastoid process.

(b) Lateral Wall of Nose.

(c) Anatomy of Palatine tonsil. (3×5=15 marks)

2. Discuss briefly on :

(a) Coagulation of blood.

(b) Physiology of smell.

(c) Decibel. (3×5=15 marks)

3. Write short notes on :

(a) C.S.F. in intracranial complications.

(b) Biochemical changes in Superior mediastinal Syndrome.

(c) Biochemistry of Salivary secretions. (3×5=15 marks)

4. Write short notes on :

(a) Pharmecology of Glycerine and its use in ENT practice.

(b) Ototoxic drugs.

(c) Antimiototic drugs. (3×5=15 marks)

5. Discuss in brief :

(a) Pathology of Cholesteatoma of ear.

(b) Pathology of Dental Cysts.

(c) Pathology of Angiofibroma of Nasopharynx. (3×5=15 marks)

6. Write short notes on :

(a) Labortory diagnosis and microbilogy of C. Diphtheria.

(b) Rhinosporidiosis.

(c) Immunotheraphy in ENT practice. (3×5=15 marks)

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[VM 1130] **APRIL 1994**

M.S. DEGREE EXAMINATION.

Branch IV — Oto-Rhino-Laryngology

Old/New/Revised Regulations

Part I

APPLIED BASIC SCIENCES

Time : 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 :

1. Anatomy
   (a) Lateral wall of nose.
   (b) Palatine tonsils.
   (c) Piriform fossa. (3 x 5 = 15)
2. Physiology
   (a) Auditory pathways.
   (b) Endocochlear potentials.
   (c) O_2 dissociation curve. (3 x 5 = 15)

Biochemistry
   (a) Essential fatty acids.
   (b) Pellagra.
   (c) Blood group antigens. (3 x 5 = 15)

Pharmacology
   (a) Ciprofloxacin.
   (b) Loratadine.
   (c) Clavulanic acid. (3 x 5 = 15)

Pathology
   (a) Rhinosporidiosis.
   (b) Angiofibroma.
   (c) Midline malignant reticuloses. (3 x 5 = 15)

Microbiology
   (a) Otomycosis.
   (b) Normal flora of the throat.
   (c) Aetiology of upper respiratory tract infections. (3 x 5 = 15)

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APRIL 1995

SB 233

M.S. DEGREE EXAMINATION

Branch IV OTO-RHINO-LARYNGOLOGY

(Old/New 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

ANATOMY

1. Describe the cartilages and ligaments of larynx with diagrams. (15)

2. Write short notes on:
   a). Deep cervical fascia
   b). Eustachian tube
   c). Semicircular canals (3 X 5 = 15)

PHYSIOLOGY

1. Give a brief account of the auditory pathway and the physiology of hearing. (15)

2. Write short notes on:
   a). Haemophilia
   b). Parosmia
   c). Stages of Deglutition (3 X 5 = 15)

BIOCHEMISTRY

1. Discuss in detail the T.C.A. Cycle in carbohydrate metabolism. (15)

2. Write short notes on:
   a). Essential amino acids
   b). Triglycerides
   c). Structrue of Immunoglobulins. (3 X 5 = 15)

PHARMACOLOGY

1. Describe the pharmacology of the local anaesthetics used in ENT surgery. (15)

2. Write short notes on:
   a). NSAIDs
   b). Aminoglycosides
   c). β blockers (3 X 5 = 15)

PATHOLOGY

1. Discuss the pathology of tumours of the larynx. (15)

2. Write short notes on:
   a). Rhinosporidiosis
   b). Nasal polyp
   c). cholesteatoma (3 X 5 = 15)

MICROBIOLOGY

1. Give an account of the Upper Respiratory Tract Commensal bacteria and their ecological importance. (15)

2. Write short notes on:
   a). Mucormycosis
   b). Epstein-Barr Virus
   c). Disinfection of endoscopes (3 X 5 = 15)

[AK 227] **APRIL 1996**

M.S. DEGREE EXAMINATION

(Old/New/Revised Regulations)

Part I

Branch IV — Oto-Rhino-Laryngology

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 Tympanic membrane.

2. Little's area.

3. Pneumatisation of the mastoid process.

4 Waldeyer's ring.

(PHYSIOLOGY)

5. Theories of hearing.

6 Functions of middle ear.

7 Effects of unilateral labrynthectomy.

8. Wernicke's area.

[AK 227] APRIL 1996

(BIOCHEMISTRY)

9. Buffer systems of the blood. (8)

10. Bichemical changes after tracheostomy. (8)

11. Biochemical importance of cerebro spinal fluid. (7)

12. Anion gap. (7)

(PHARMACOLOGY)

13. Nasal decongestants. (7)

14. Antimetabolites in cancer therapy. (8)

15. Gentamycin. (7)

16. Prednisolone. (8)

(PATHOLOGY)

17. Cholesteatoma. (8)

18. Aetio pathogenesis of carcinoma of oesophagus. (8)

19. Oral candidiasis. (7)

20. Rhinoscleroma of nose. (7)

(MICROBIOLOGY)

21. Immunofluorescence tests. (8)

22. Vincent's angina. (8)

23. Chemical methods of sterilisation. (7)

24. Standard tests for syphilis. (7)

[PK 181] **OCTOBER 1996**

M.S. DEGREE EXAMINATION.

(Old/New/Revised Regulations)

Part I

Branch IV — Oto–Rhino–Laryngology

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

Nasal septum. (8)

2 Cochlear duct. (8)

3 True vocal cords. (7)

4 Sphenoidal air sinus. (7)

PHYSIOLOGY

5 Place theory of hearing (8)

6 Bohr effect. (8)

7 Surfactant. (7)

8 Aphasia. (7)

BIOCHEMISTRY

9 Vitamin C. (8)

Composition of Labyrinthine fluid (8)

11. Immunoglobulins. (7)

12. Metabolic acidosis. (7)

PHARMACOLOGY

13. Advantages and limitations of Corticosteroid inhalation. (8)

14. Halothane anaesthesia. (8)

15. Nasal decongestants and their limitations in rhinitis. (7)

16. Principles of anticancer drug combination. (7)

PATHOLOGY

17. Cardinal features of acute inflammation. (8)

18. Ceruminal adenoma. (8)

19 Leucotrienes (7)

20 Nasopharyngeal carcinoma. (7)

MICROBIOLOGY

21 Adenoviruses. (8)

22 Aspergillus fumigatus. (8)

23 Streptococcus pyogenes (7)

24 Herpes simplex. (7)

MP 205 **APRIL 1997**

M.S. DEGREE EXAMINATION

Branch IV - E.N.T.

(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. Spiral organ of Corti
2. Applied anatomy and development of palatine tonsil
3. Nasal septum
4. Rima glottidis

PHYSIOLOGY

5. Impedance matching by the ear ossicular system
6. Mechanism by which the loudness of the sound is determined
7. Taste bud
8. Pathway of smell sensation.

BIOCHEMISTRY

9. Diagnostic importance of C.S.F. biochemical analysis
10. Variations in labyrinthine fluid parameters in disease
11. Role of carbonic anhydrase in maintaining pH
12. Metabolic acidosis.

PHARMACOLOGY

13. Bleomycin
14. Nasal decongestants
15. Ibuprofen
16. Amikacin.

PATHOLOGY

17. Classification of salivary gland tumours
18. Jugular paraganglioma
19. Classify gangrene and discuss cancrum oris
20. Premalignant lesions of oral cavity.

MICROBIOLOGY

21. Oncogenic virus - Nasopharyngeal carcinoma
22. Mastoiditis
23. Quinsy
24. Rhinosporidiosis.

[SM 216] OCTOBER 1998

M.S. DEGREE EXAMINATION

Branch IV — E.N.T

(Revised Regulations)

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.

Write briefly on each topic.

All questions carry equal marks.

1 Anatomy

(a) Waldeyer's Ring

(b) Chorda Tympani nerve

(c) Nasal Septum

(d) Tubo–Tympanic recess

(e) Passavant's ridge.

2 Physiology

(a) Deglutition reflex

(b) Structure and functions of organ of corti

(c) Postural reflexes

(d) Neural regulation of respiration

(e) Role of kidney in water and electrolyte balance

3. Biochemistry

(a) Biochemical changes after tracheostomy

(b) Anion gap

(c) Functions and composition of C.S.F.

(d) Respiratory regulation of pH

(e) Hypokalemia.

4. Pharmacology

(a) Mechanism and therapeutic uses of β–lactomase resistant drugs

(b) Drugs used in treatment of acute sinusitis

(c) Naphazoline

(d) Therapeutics uses and side effects of Naproxen

(e) Role of adrenaline in combination with procaine for local anaesthesia.

5. Pathology

(a) Acute otitis media and mastoiditis

(b) Midline lethal granulomas

(c) Chemical mediators of acute inflammation

(d) Benign mixed tumour of salivary gland

(e) Reflex oesophagitis.

6. Microbiology

(a) Coryne bacterium diptheriae

(b) Vincent's angina

(c) Candida albicans

(d) Adeno virus

(e) Immunoglobulins.

[SG 216] APRIL 1999 Sub. Code : 9000

M.S. DEGREE EXAMINATION.

Branch IV — E.N.T.

(Revised Regulations)

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) Histology and development of epiglottis

(b) Cricoid cartilage

(c) The muscles acting on the rima glottiddis their attachment, nerve supply and actions

(d) Piriform fossa

(e) Recurrent laryngeal nerve.

2. Physiology

(a) Maintenance of body balance

(b) Physiological basis of the treatment of stoppage of nasal bleeding

(c) Physics of the sound

(d) Physiological basis of smell

(e) Noise pollution on health.

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3. Biochemistry

(a) Diagnostic importance of labyrinthine fluid parameters

(b) Role of carbonic anhydrase in the regulation of pH

(c) Chloride shift

(d) Regulation of blood sugar

(e) Proteinurias.

4. Pharmacology

(a) Drugs to arrest bleeding

(b) Nimesulide

(c) Newer penicillins

(d) Drugs for vertigo

(e) Phenyl ephrine.

5. Pathology

(a) Aural (OTIC) Polyp

(b) Pleomorphic Adenoma

(c) Barrett's oesophagus

(d) Rhinosporidiosis

(e) Vascular Tumors of Nasal Cavity.

6. Microbiology

(a) Sterilisation by radiation

(b) Eleks gel precipitation test

(c) Mutational type of drug resistance

(d) Laboratory diagnosis of peritonsillar abscess

(e) Widal test.

OCTOBER 1999

[KA 216] Sub. Code : 9000

M.S. DEGREE EXAMINATION

(Revised Regulations)

Branch IV — E.N.T

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 :

(a) Development of the mastoid antrum

(b) The middle meatus of the nose

(c) Blood supply and nerve supply of external ear

(d) The ostium of maxillary air sinus

(e) Laryngeal inlet.

Physiology :

(a) Pharyngeal phase of deglutition

(b) Functions of middle ear

(c) Role of vestibular Apparatus in posture

(d) Olfactory path way

(e) Taste buds.

3. Biochemistry :

   (a) CSF changes in purulent meningitis

   (b) Biochemical changes after tracheostomy

   (c) Role of kidney in maintaining pH of blood

   (d) Biochemistry of labyrinthine fluid in diseases

   (e) Collagen.

4. Pharmacology :

   (a) Xylocaine

   (b) Astemizole

   (c) Local Haemostatics

   (d) Ciprofloxacin

   (e) Ketorolac.

5. Pathology :

   (a) Juvenile Laryngeal Papilloma

   (b) Otitis Media

   (c) Chronic Mastditis

   (d) Pathogenesis of septic shock

   (e) Epistaxis.

6. Microbiology :

   (a) Nosocomial infection

   (b) Fusiform bacillus

   (c) Haemolytic streptococci

   (d) V.D.R.L. Test

   (e) Coxsackie virus.

[KB 216] APRIL 2000 Sub. Code : 9000

M.S. DEGREE EXAMINATION.

(Revised Regulations)

Branch IV — E.N.T.

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) Ethmoid Air Sinus

(b) Superior Mediastinum

(c) Changes in the Temporal Bone after birth

(d) Cricothyroid Muscle

(e) Laryngocele

APRIL 2000

(PHYSIOLOGY)

2. (a) Intrinsic mechanism of coagulation of blood
   (b) Taste pathway
   (c) Functions of Middle ear
   (d) Chemical regulation of Respiration
   (e) Physiology of Deglutition.

(BIOCHEMISTRY)

3. (a) Phenyl Ketonuria
   (b) Ceruloplasmin
   (c) Coenzymes
   (d) Superoxide desmutase
   (e) Pellagra.

(PHARMACOLOGY)

4. (a) Therapeutic uses of adrenaline
   (b) Merits and demerits of Procaine
   (c) Methotrexate
   (d) Diclofenac sodium
   (e) Mention adrenergie nasal decongestant drugs

(PATHOLOGY)

5. (a) Leukoplakia
   (b) Thyroglossal cyst
   (c) Granulomas of Nose
   (d) Plummer Vinson Syndrome
   (e) Macroglossia.

(MICROBIOLOGY)

6. (a) Instruments sterilized by Hot air oven
   (b) Antibiotic sensitivity test
   (c) Toxin produced by staphylococci
   (d) Adenovirus
   (e) Laboratory diagnosis of candida.

OCTOBER 2000

[KC 216] Sub. Code : 9000

M.S. DEGREE EXAMINATION.

Branch IV — E.N.T.

(Revised Regulations)

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

(a) Mastoid Antrum

(b) Chorda Tympani

(c) Intratemporal part of Vestibular Nerve

(d) "Singer's Nodes"

(e) Tympanic Membrane

Physiology

(a) Impedence matching

(b) Primary auditory cortex

(c) Endocochlear Potential

(d) Prothrombin

(e) Sneeze Reflex

3. Biochemistry

(a) LDL — Cholesterol

(b) Creatinine clearance

(c) Respiratory Acidosis

(d) Collagen

(e) Gene therapy

4. Pharmacology

(a) How do you prolong the duration of Procaine?

(b) Common adverse effects of NSAIDs

(c) Ciprofloxacine

(d) Uses of corti costeriods in Otolaringology

(e) Mention adverse effects of cancer hemotherapy

Pathology

(a) Fine Needle Aspiration Cytology

(b) Virchow's Triad

(c) Promotors of wound healing

(d) Hodgkin's Lymphoma

(e) Dermoid Cyst

6. Microbiology

(a) Instruments sterilized by autoclave

(b) Gram Staining

(c) 'C' Reactive Protein

(d) Lactobacilli

(e) Rhinosporidiosis.